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MITSUBISHI CK-35804 OPERATING MANUAL

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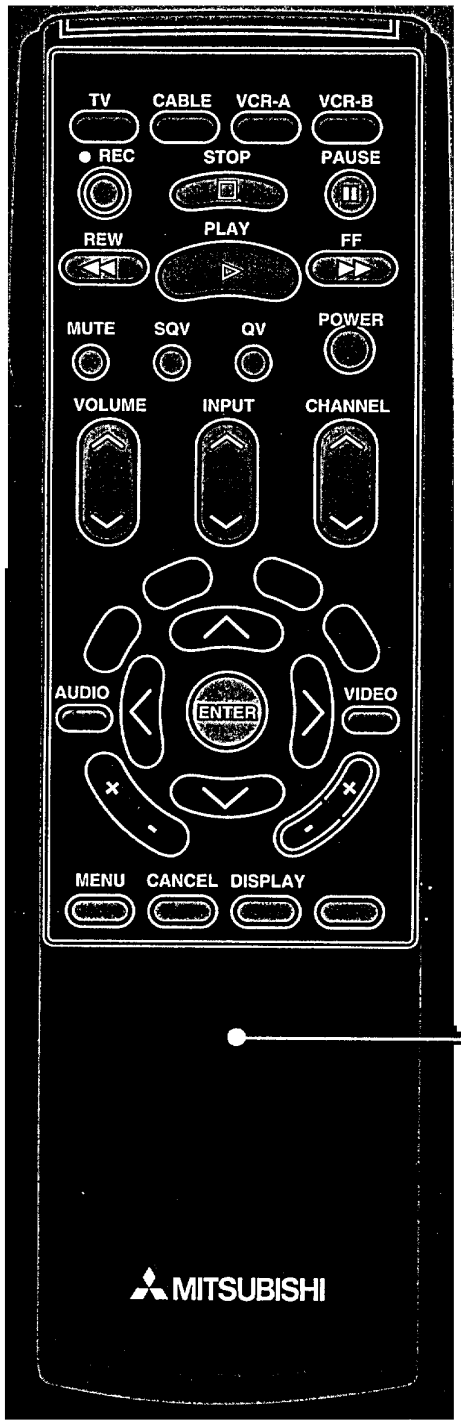
Operating Guide

MITSUBISHI



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STAR SIGHT

MITSUBISHI OPERATING GUIDE

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CHAPTER 1

Getting to Know Your TV

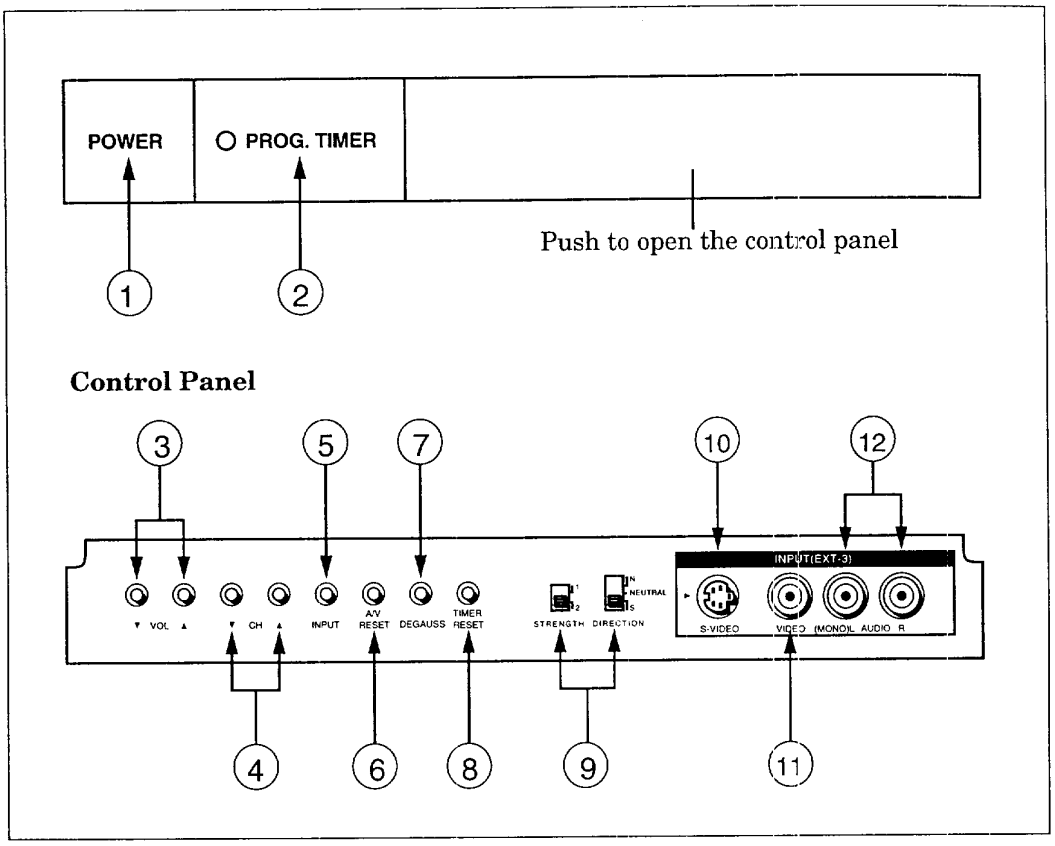
Now that you have connected your TV and subscribed to the StarSight service, it's time to understand the exciting features your Mitsubishi TV offers.

▷**Important:** If you have not connected your TV and subscribed to StarSight, please see **Booklet #1, "Mitsubishi Installation and Setup Guide"** before reading this owner's guide.

This chapter will introduce you to the range of options available by using the buttons on the control panel of the TV or the remote control. You'll find information on:

- **Overview of the Control Panel**
- **Overview of the Remote Control**

◆ Overview of the Control Panel



①power button (POWER)
Use to turn the TV on or off.

②program timer indicator (PROG. TIMER)
Lights up when the TV is programmed to turn on at a particular time.

③volume controls (VOL)
Press the ▲button to turn up the volume and the▼button to turn down the volume.

④channel controls (CH)
Use the ▲button to switch to a channel with a higher number and the ▼button to switch to a channel with a lower number.

⑤input button (INPUT)
Use this button to select the input source to view:
- Antenna A,
- Antenna B, or
- External 1, 2 or 3.

⑥ **A/V reset button (A/V RESET)**
Press to reset all audio and video functions to their normal level or setting.

⑦ **degauss button (DEGAUSS)**
Use this button to correct color impurity.

⑧ **timer reset button (TIMER RESET)**
Use to change all the settings to the initial factory set-up. Programs in memory and the clock-time will be erased.

⑨ **color purity adjustment switches**
Set to adjust the color purity.

▷**Important:** For information about connecting equipment, please see **Booklet #1, "Mitsubishi Installation and Setup Guide."**

⑩ **S-VIDEO input terminal**
Use to connect the video output of a Super VHS (S-VHS) VCR to the TV. If you connect an S-VHS VCR to this terminal, EXT-3 will automatically be the input for viewing the S-VHS VCR.

⑪ **video input terminal**
Use to bring in the video signal from a standard VCR or another component to the TV

⑫ **audio input terminals**
Use to bring in the audio signal from a VCR or other equipment.

◆ Overview of the Remote Control

Getting ready to use the remote control
If you subscribed to StarSight, you have already completed the following instructions. Please skip ahead to page 6.

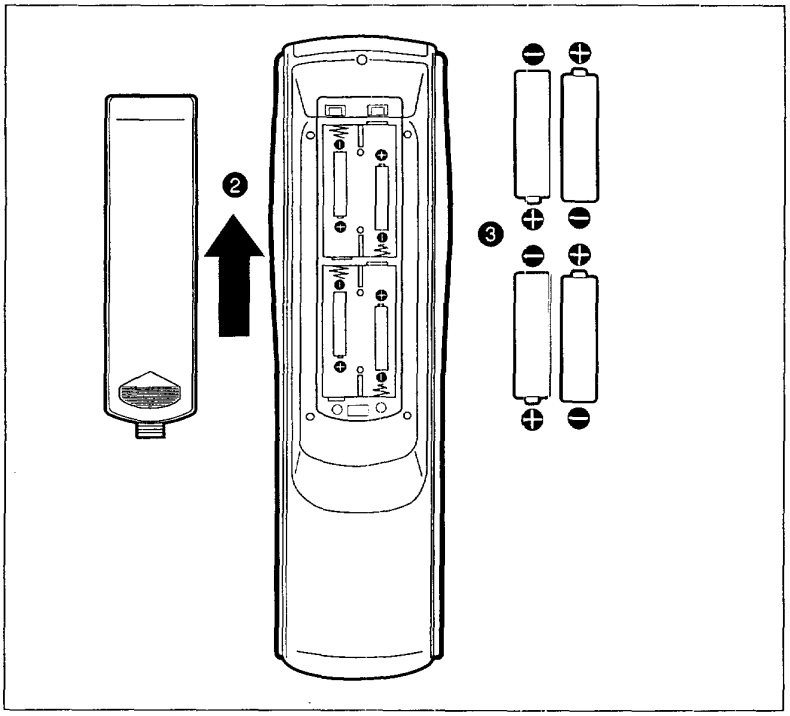
installing the batteries

❶ Take the box containing four AA size batteries from the packing bag.

❷ Remove the back cover of the remote control by pushing in the direction of the arrow.

❸ Load the batteries as indicated in the illustration, making sure that they are positioned correctly (+ to +, and – to –).

❹ Replace the back cover of the remote control.



For best results, use Duracell AA (MN1500) batteries.

some dos and don'ts

To ensure that your remote control will continue working properly, follow these guidelines:

- Don't press two or more buttons at the same time, unless specifically instructed to do so in this owner's guide.
- Don't allow the remote control to get wet or become heated.
- Avoid dropping the remote control on a hard surface.
- When cleaning the remote control, don't use any harsh chemicals. Use only a soft, slightly moistened cloth.

general instructions

When using the remote control to operate the TV, VCR or cable box:

❶ Be within 20 feet of the desired equipment.

❷ Point the top of the remote control toward the equipment.

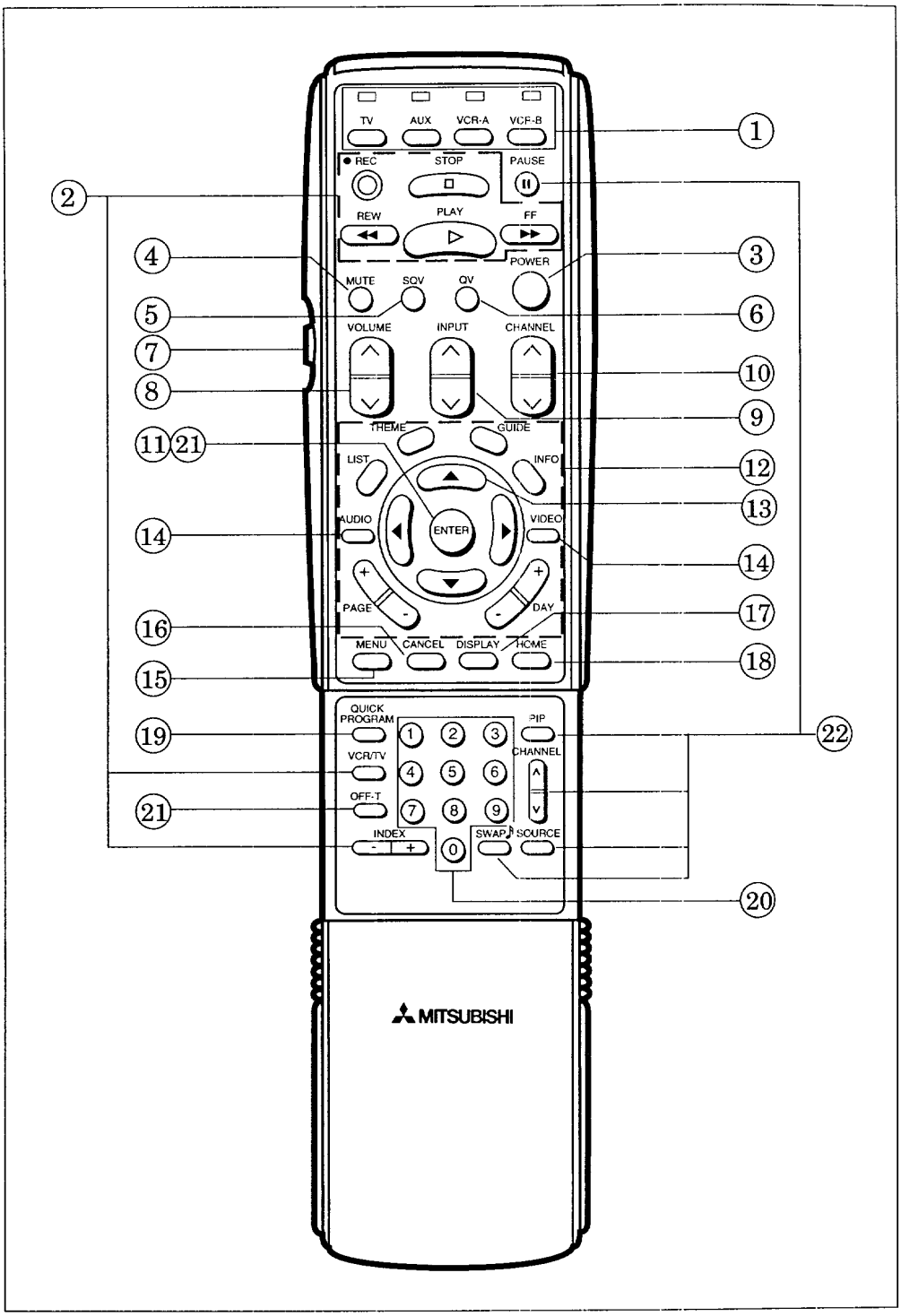
❸ Press the appropriate button or groups of buttons.

guidelines for using batteries

- Don't use a new battery with an old one.
- Don't heat, take apart, or throw batteries into a fire.

The following section explains more about the range of options available when using the remote control.

Remote control buttons and functions



① **select buttons**
Use these buttons to select the component you wish to operate: the TV, an audio component (in AUX layer), VCR-A or VCR-B. These are also used to set up your remote control for your particular brand of VCR and to operate your cable box.

② **VCR buttons**
These buttons can be used to control other manufacturer's VCRs and are pre-programmed to operate select Mitsubishi VCRs.

③ **power button (POWER)**
Use to turn the TV on or off.

④ **mute control (MUTE)**
Use to turn the sound off completely or restore it to its original volume.

⑤ **super quick view button (SQV)**
Press to view channels you have programmed into the super quick view memory. Also press when searching by theme when using StarSight.

⑥ **quick view button (QV)**
Press to view a channel programmed into Quick View Memory.

⑦ **light button**
Use to light up the remote control (for 3 seconds).

⑧ **volume control (VOLUME)**
Press the top part of the button to turn up the volume; press the bottom part of the button to turn down the volume.

⑨ **input button (INPUT)**
Use to select the input source you wish to watch:
- Antenna A,
- Antenna B, or
- External 1, 2 or 3.

⑩ **channel control (CHANNEL)**
Press the top part of the button to change to a channel with a higher number; press the bottom part to change to a channel with a lower number.

Remote control buttons and functions (cont.)

⑪ **enter button (ENTER)**
Use to select a channel or an item from the on-screen menu system. Also use when operating PIP.

⑫ **StarSight function buttons**
Use to control the StarSight functions.

▷**Important:** For information on how to subscribe to StarSight, please see **Booklet #1, "Mitsubishi Installation and Setup Guide."** To learn how to operate StarSight, please see **Booklet #3, "StarSight Operating Guide."**

- **guide button (GUIDE)**---Press to see the program guide.
- **theme button (THEME)**---Press to see the theme guide.
- **list button(LIST)**---Press to see a list of programs to record.
- **information button (INFO)**---Press to display the program information.
- **day button (DAY)**---Use to advance or turn back the day screen.
- **page button (PAGE)**---Use to select the next page number up or down.
- **ADJUST (up/down) buttons**---Press to move the cursor up or down.
- **ADJUST (right/left) buttons**---Press to move the cursor to the right or the left.

⑬ **ADJUST (up/down) buttons, ADJUST (right/left) buttons**---Use the ADJUST buttons to adjust audio and video functions. Press these buttons to:
-turn the function on or off (e.g., video noise reduction),
-increase or decrease the function (e.g., color),
-shift from one end of a scale to the other (e.g., balance), or
-select a position (e.g., stereo).

You will also use the ADJUST buttons to select items on the ViewPoint III menu system.

⑭ **audio and video controls**
Used in pairs to adjust features of the image or sound (other than volume) with a two-step process: press AUDIO or VIDEO to select a function; press ADJUST to adjust the function.

- **audio function button (AUDIO)**---Use to select one of the following audio functions:
  -stereo/SAP/mono,
  -bass,
  -treble,
  -woofer,
  -balance,
  -surround off/simulate/hall,
  -speaker internal/internal center channel/external, or
  -monitor out variable/fixed.

- **video function button (VIDEO)**---Use to select one of the following video functions:
  -tint,
  -color,
  -contrast,
  -brightness,
  -sharpness,
  -video noise reduction on/off,
  -color temperature low/middle/high,
  -color bias average/accurate/skin-tone, or
  -closed captioning.

⑮ **menu button (MENU)**
Use this button to display the on-screen menu system, which contains additional instructions for special functions.

⑯ **cancel button (CANCEL)**
Use this button to: cancel an entered channel number within three seconds; erase the parental lock code during the parental lock sequence; clear a channel programmed into super quick view memory; or to clear the settings of on-screen menus.

⑰ **display button (DISPLAY)**
Use to view on-screen information about your TV, and to see displays related to Extended Data Services (EDS).

Remote control buttons and functions (cont.)

⑱ **home button (HOME)**
Press to return to regular TV viewing from the on-screen displays and menus.

⑲ **quick program button (QUICK PROGRAM)**
Use this button to quickly program your Mitsubishi VCR to record.

▷**Important:** You must connect your Mitsubishi VCR with the A/V Network to use Quick Program.

⑳ **number buttons (0-9)**
Use to select a channel number, and to enter the parental lock code.

㉑ **off-timer button (OFF-T)**
Use to program the TV to turn off automatically at a later time.

㉒ **picture-in-picture controls**
Use to control the special picture-in-picture (PIP) function.

- **PIP button (PIP)**---Press to see the PIP image or cancel it.
- **channel button (CHANNEL)**---Press to change the channel of the reduced PIP image.

- **source button (SOURCE)**---Press repeatedly to switch the source of the reduced PIP image between the TV and other video signals.

- **pause button (PAUSE)**---Press to freeze the reduced PIP image or cancel the image freezing. Also use for the advanced PIP functions.

- **swap button (SWAP)**---Press to switch the sound between the background image and the reduced PIP image.

- **enter button (ENTER)**---Press to switch back and forth between the reduced PIP image and the main image.

- **ADJUST (up/down) buttons, ADJUST (right/left) buttons**---Press to move the position of the reduced PIP image.

CHAPTER 2

Operating Your TV

This chapter will explain how to operate your TV, first focusing on functions that are basic and easy and then explaining some of the advanced features.

▷**Important:** Please see **Booklet #3, "StarSight Operating Guide"** for information on using the StarSight feature.

This chapter explains:

- **Getting Started**
- **Using the Advanced Features**

◆ Getting Started

This section will introduce you to the basic features of your Mitsubishi TV.

You'll find information on:

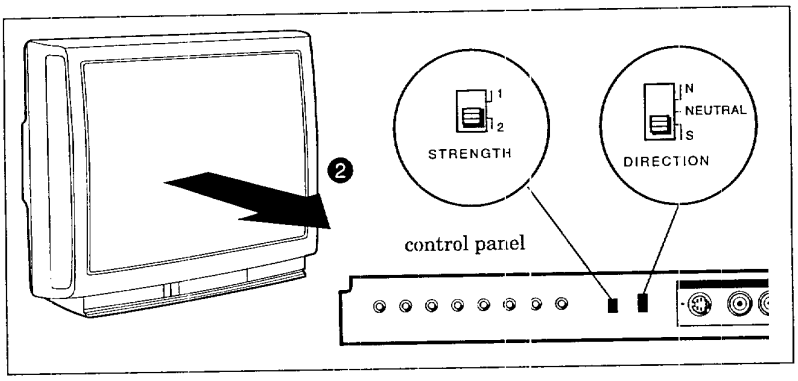
- **Adjusting the color purity,**
- **Using the remote control,**
- **Turning the TV on/off,**
- **Selecting the input source,**
- **Changing channels,**
- **Understanding the ViewPoint III on-screen menus,**
- **Memorizing channels,**
- **Setting the clock,**
- **Adding and deleting channels,**
- **Setting the A/V Network,**
- **Choosing the menu display,**
- **Renaming the inputs,**
- **Naming the channels,**
- **Locking A/V functions,**
- **Using the advanced PIP functions,**
- **Using the power restore feature,**
- **Adjusting the sound,**
- **Adjusting the picture, and**
- **Using the closed caption decoder.**

▶Warning:

Don't leave stationary images, such as those generated from stock market reports or video games, on-screen for more than 10 minutes. Still patterns can scar the TV causing permanent damage to the picture tube.

Adjusting the color purity

Your Mitsubishi color television has a large screen picture tube and color purity may be affected slightly by the earth's magnetic field. For best results, follow the instruction below to adjust color purity.



❶ Turn off the TV set.

❷ Determine the compass direction where the set is facing. The direction is determined from the front of the screen facing forward (Please note the direction of the arrow).

❸ Select the position for the DIRECTION switch according to the chart below.

TV SET DIRECTION	DIRECTION SWITCH S	NEUTRAL	N	STRENGTH SWITCH
North			X	2
North East			X	
North West			X	
South	X			
South East	X			
South West	X			
East		X		
West		X		

❹ Turn the TV on, and check the color performance.

Important:

- If a color impurity is still present, change the STRENGTH switch to position "1." If a color impurity persists after changing the STRENGTH switch position, press the DEGAUSS button on the control panel.
- Adjust the color purity switches each time you move the set to a new location.
- If a color impurity still persists after you readjust the color purity switches, please contact your Mitsubishi Authorized Warranty Center.

Using the remote control

Operating Mitsubishi components

The remote control comes programmed to operate Mitsubishi TVs, and VCRs. The SELECT buttons determine which component the remote control will operate.

Select the equipment you wish to control (TV, AUX, VCR-A or VCR-B) by pressing the appropriate SELECT button. The remote will control the selected piece of equipment until you choose another setting.
The following buttons are available to control your TV set.

- power button
- PLAY button
- pause button
- mute control
- super quick view button
- quick view button
- volume control
- input button
- channel control
- enter button
- audio and video controls
- StarSight function buttons
- menu button
- cancel button
- display button
- home button
- quick program button
- off-timer button
- number buttons
- PIP controls
- swap button
- adjust up/down, left/right

Operating other manufacturers' VCRs

The remote control is pre-set to operate Mitsubishi VCRs, but it can also operate VCRs from other manufacturers as well. If you have a VCR from another manufacturer, you can set up your remote to control it.

▷**Important:** You can set each layer (AUX, VCR-A or VCR-B) to operate your VCR.

<setting up the remote control to operate your VCR>

❶ Turn off your VCR.

❷ Choose a layer for controlling a VCR by pressing a SELECT button on the remote control: VCR-A, VCR-B or AUX.

❸ While holding in the POWER button on the remote control, enter the code number listed in the chart on the following page for your brand of VCR. Be sure to enter both digits of the code number. (If more than one code number is listed, try the first one. If that code does not work, try the next one until you find the correct code.)

❹ Release the POWER button.

❺ Press the POWER button again. Your VCR should turn on. Your remote control is now set to operate your VCR.

If your VCR is this brand...	...enter this code	If your VCR is this brand...	...enter this code
Mitsubishi (A)	01	Philips	03, 10, 11
Mitsubishi (B)	02	Quasar	03
Canon	03	RCA	08, 13, 20
Emerson	04, 05	Sanyo	14
Funai	06	Scot	15
GE	03	Sharp	16
Goldstar	07	Sony	17, 18
Hitachi	08	Sylvania	03, 10, 11
JVC	09	Symphonic	06
Magnavox	03, 10, 11	Teknika	04, 06
Multitech	06	Toshiba	15
NEC	12	Totevision	07
Panasonic	03	Zenith	19
Philco	03, 10		

If your VCR does not turn on, repeat the instructions, trying each code number listed for your brand of VCR.

▷**Important:** Sometimes manufacturers will change the remote control codes for their products, or they may use more than one code. If this is the case, your remote may not be able to operate your VCR or cable box.

▷**Important:** When you replace the batteries in your remote control, the remote will "forget" the codes for your VCR. You will need to reenter the codes for your VCR to use the remote.

<using your remote control to operate your VCR>

After you have set up your remote control for your particular brand of VCR, you can use the remote to operate your VCR.

❶ Press the SELECT button on the remote control that you used to memorize your VCR codes: VCR-A, VCR-B or AUX.

❷ Point the remote control at the VCR and press the desired buttons.

Using the remote control (cont.)

▷**Important:** If you are using a Mitsubishi VCR, you will be able to use all of the buttons on the remote control to operate your VCR except for MUTE, VOLUME and the PIP function buttons.

If you are using another brand of VCR, you can use the POWER, CHANNEL, REC, STOP, PAUSE, REW, PLAY, FF and INDEX buttons to operate your VCR.

<using your remote control to operate your cable box>

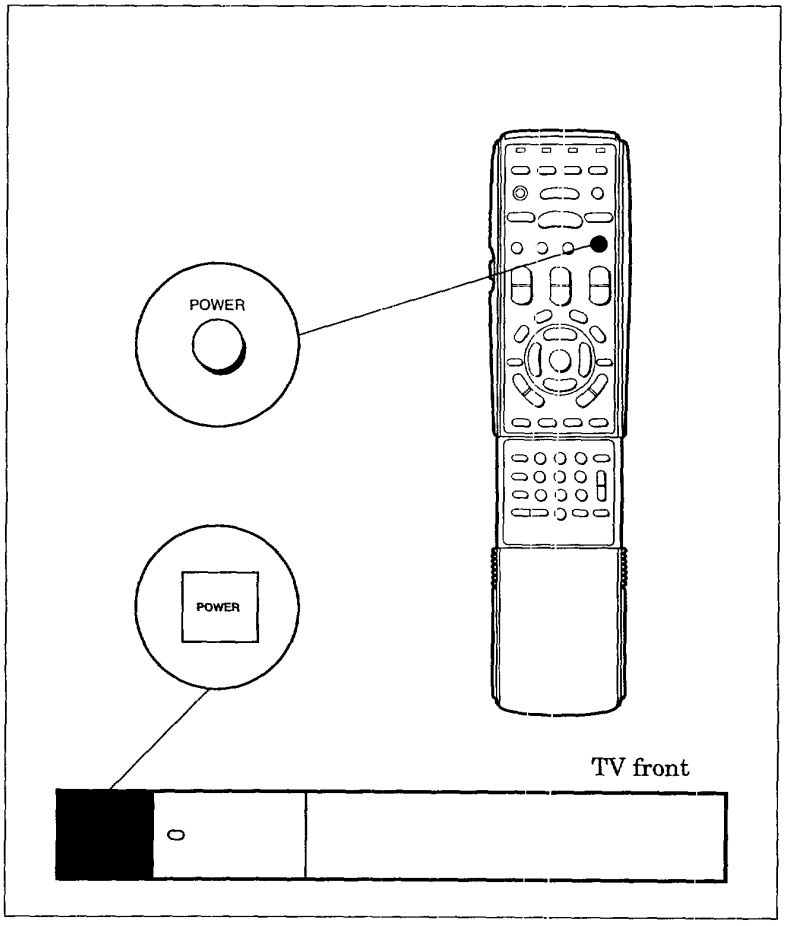
If you wish to use your remote control to operate a cable box, please see **Booklet #1, "Mitsubishi Installation and Setup Guide."**

Turning the TV on/off

▷**Important:** Before using the remote control to operate the TV, press the TV SELECT button.

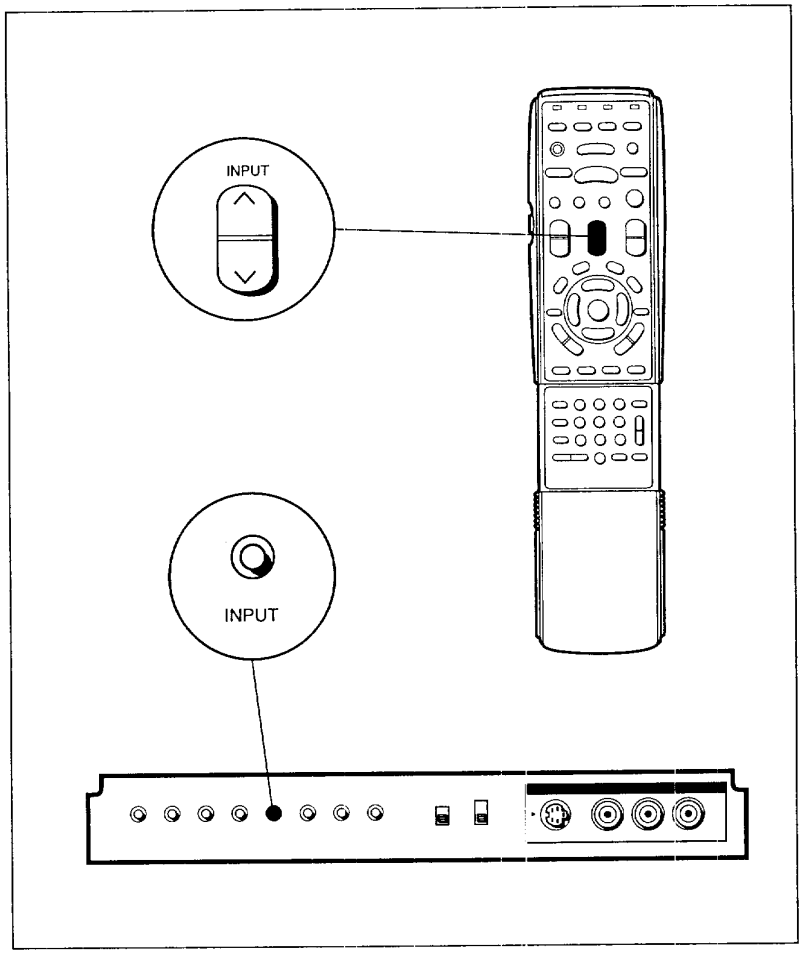
Use the POWER button on either the remote control or the control panel to turn the TV on and off.

▷**Important:** Even with the power turned off, there is a small current that continues to flow into the TV. This saves any changes you have made to the settings as well as operates the built-in clock and timing functions. Unplugging the set will erase these settings requiring that you set them again. Unplug the TV only when it won't be used for a long time. Do not plug your TV into an outlet controlled by a light switch.



Selecting the input source

Press the input button (INPUT) on the remote control or the control panel to select the input source you wish to view: Ant-A or Ant-B, Ext-1, Ext-2 or Ext-3.



Changing channels

Your TV offers you four ways of changing channels once their numbers have been programmed into channel memory.

- changing channels automatically;
- changing channels directly;
- using the quick view option; or
- using the Super Quick View option.

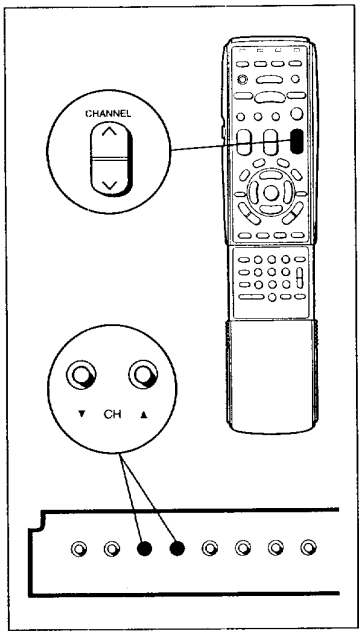
To change channels faster:

✓ Enter three digits for every channel number, using zeros where needed. (For example, enter "004" to view channel 4 and "028" to view channel 28.)

✓ Press the ENTER button after selecting the number of the channel. (For example, press "4" and "ENTER" to view channel 4.)

▷**Important:** Cable stations channel numbers 0 and greater than 126 are unassigned. If you are using an antenna system with your TV, stations 0, 1 and 70 through 999 are unassigned. If you press these channel numbers, the channel remains unchanged.

Changing channels (cont.)

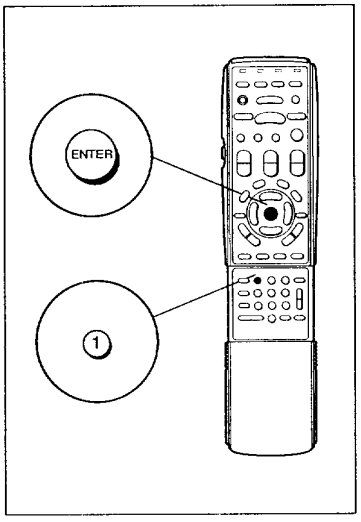


changing channels automatically

To change channels:

Press one of the channel controls (CHANNEL, CH) on the remote control or on the control panel. The TV automatically goes to the next broadcasting station.

▷**Important:** The TV will automatically go to the next station only after channels have been programmed into memory. (Please see "Memorizing channels," page 25.)

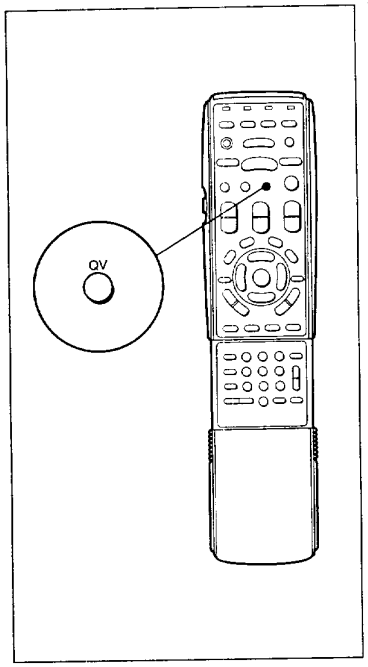


changing channels directly

To move directly to a particular channel quickly:

❶ Use the remote control to select the number of the channel you want to view.

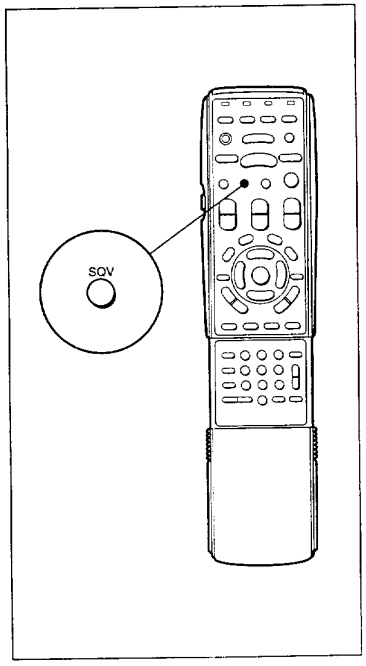
❷ Press the ENTER button.



using quick view

To use Quick View:

1. Select the channel you wish to enter into the quick view memory.
2. Press the quick view (QV) button for about 3 seconds. When you release this button, the "QV" icon will appear on screen.
3. After you change to another channel, press the QV button to immediately switch back to the memorized channel. (The "QV" icon will appear whenever you tune to a channel in the QV memory.)



using super quick view

To view selected channels programmed into the super quick view memory:

1. Enter the desired channel into Super Quick View memory. (See "Using Super Quick View," page 48.)
2. Press the super quick view (SQV) button to view the selected channels in sequence. (An "SQV" icon appears when you tune to a channel in the Super Quick View memory.)

   When using StarSight, you can set SQV to tune to stations that are broadcasting a particular theme. (Please see **Booklet #3, "StarSight Operating Guide."**)

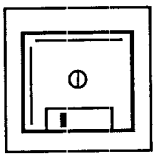
Understanding the ViewPoint III on-screen menus

One of the distinctive features of this TV is Mitsubishi's exclusive ViewPoint III On-Screen Operating System. Unlike other television menu systems, ViewPoint is designed with a special Picture-In-Picture screen to let you view the TV while you are selecting its special features.

When using the ViewPoint III menu system, please note:

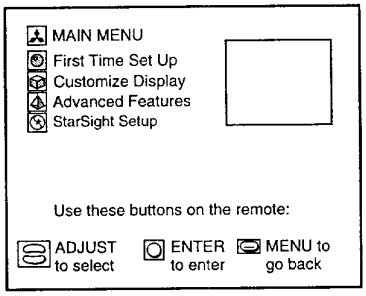
- ✓ The selected menu item is indicated in white.
- ✓ The on-screen menus will clear if no item is selected within 5 minutes.
- ✓ Some menu items are available (displayed) only when you set up StarSight. (Please see **Booklet #3, "StarSight Operating Guide"** for more information about the StarSight menus.)
- ✓ Some on-screen menu items must be set before other items are available. For example, "Set the timer" will only be available if you have already set the clock. (If you are using StarSight, the clock will be set automatically.)
- ✓ You can exit the on-screen menus by pressing the HOME button once on the remote control.
- ✓ You can also exit the on-screen menus any time by pressing the MENU button repeatedly. You will then return to regular TV viewing.

Memorizing channels



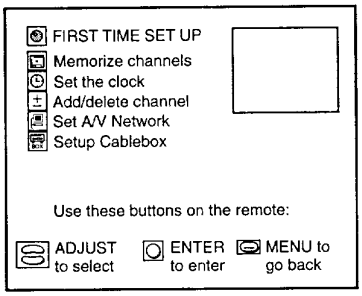
Your TV automatically memorizes the channels you can receive. Once channels are memorized, you can scan through them using the channel control on the remote control and control panel.

To memorize channels:

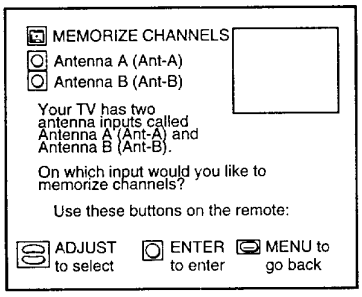


❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "First Time Setup" using the ADJUST button; then press the ENTER button.



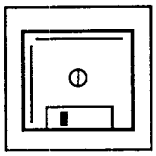
❸ You will see the "FIRST TIME SETUP" screen. Select "Memorize channels" using the ADJUST button; then press the ENTER button.


MEMORIZE CHANNELS
Antenna A (Ant-A)
Antenna B (Ant-B)
Your TV has two antenna inputs called Antenna A (Ant-A) and Antenna B (Ant-B).
On which input would you like to memorize channels?
Use these buttons on the remote:
ADJUST to select
ENTER to enter
MENU to go back

❹ The instructions for memorizing channels will appear.

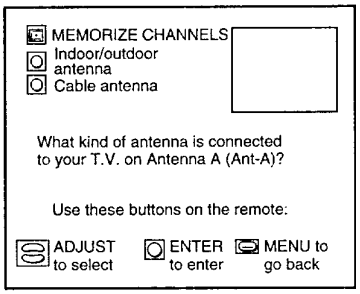
Choose either Antenna A (Ant-A) or Antenna B (Ant-B) to memorize channels. Choose whichever input you connected your antenna or cable to. If you connected an antenna to each input, then you should memorize the channels for one input now, and for the other input later.

▷**Important:** Your TV can also memorize cable box channels. However, you must first set-up your TV for cable box control. (Please see **Booklet #1, "Mitsubishi Installation and Setup Guide."**)



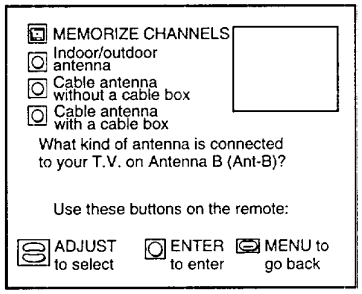
Memorizing channels (cont.)

If you select Antenna A

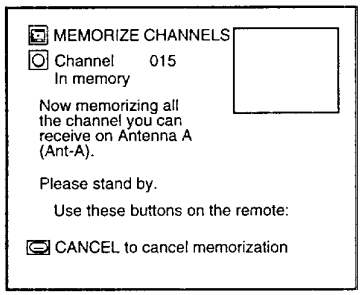

MEMORIZE CHANNELS
Indoor/outdoor antenna
Cable antenna
What kind of antenna is connected to your T.V. on Antenna A (Ant-A)?
Use these buttons on the remote:
ADJUST to select
ENTER to enter
MENU to go back

❺ Use the ADJUST button to choose the type of antenna you connected to Antenna A: Indoor/ outdoor antenna or Cable antenna. Then press the ENTER button.

If you select Antenna B


MEMORIZE CHANNELS
Indoor/outdoor antenna
Cable antenna without a cable box
Cable antenna with a cable box
What kind of antenna is connected to your T.V. on Antenna B (Ant-B)?
Use these buttons on the remote:
ADJUST to select
ENTER to enter
MENU to go back

❺ Use the ADJUST button to choose the type of antenna you connected to Antenna B: Indoor/ outdoor antenna or Cable antenna. Then press the ENTER button.

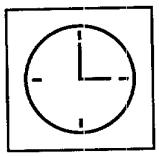

MEMORIZE CHANNELS
Channel 015
In memory
Now memorizing all the channel you can receive on Antenna A (Ant-A).
Please stand by.
Use these buttons on the remote:
CANCEL to cancel memorization

❻ You will see a message stating that channel memorization is in progress. A channel being memorize will read, "In memory," channels not being memorized read, "Not in memory." You may stop channel memorization at any time by pressing the CANCEL button.

▷**Important:** When you select "Cable antenna with a cable box," channels will be automatically memorized from channel 1 to 99. If your cable box is able to receive up to 125 channels, you should add channels from 100 to 125 using the "ADD/DELETE CHANNEL" menu.

It can take up to 20 minutes for your TV to memorize cable box channels.

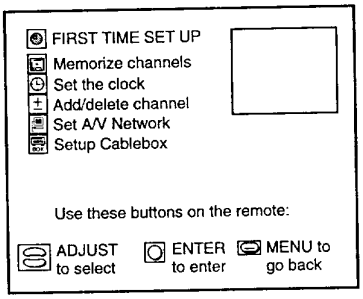
Setting the clock



Your TV has a built-in clock that shows the current time. If there is a broadcaster in your area that is sending the time along with its regular broadcast signal, or if you subscribe to StarSight, then your TV can automatically set its clock with these signals. Otherwise, you may set the clock manually.

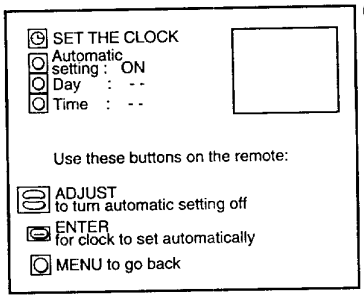
❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "First Time Setup" using the ADJUST button; then press the ENTER button.

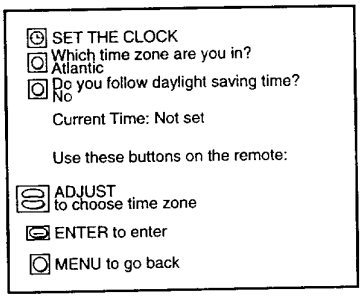


❸ You will see the "FIRST TIME SETUP" screen. Select "Set the clock" using the ADJUST button; then press the ENTER button.

Automatic setting

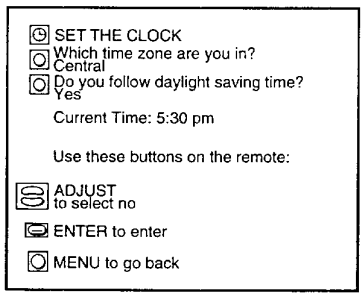

SET THE CLOCK
Automatic setting : ON
Day : --
Time : --
Use these buttons on the remote:
ADJUST to turn automatic setting off
ENTER for clock to set automatically
MENU to go back

❹ If you want your TV to set its clock automatically, use the ADJUST button to set "Automatic setting" to "ON"; if you want to set the clock yourself, set "Automatic setting" to "OFF." The instructions for setting the clock automatically will appear.



❺ Select the time zone you are in using the ADJUST button; then press the ENTER button. The available time zones are: Atlantic, Eastern, Central, Mountain, Pacific, Alaska and Hawaii.

Setting the clock (cont.)

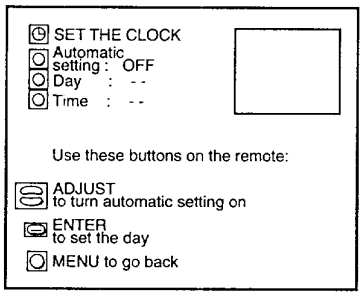


❻ If you follow daylight saving time, set the next option to "Yes" using the ADJUST button. If you do not, set it to "No." Then press the ENTER button.

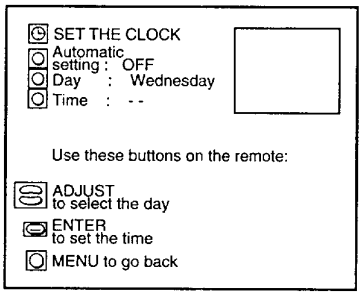
- The automatic setting is completed, and the clock will start automatically.

The screen will return to the "FIRST TIME SETUP" menu.

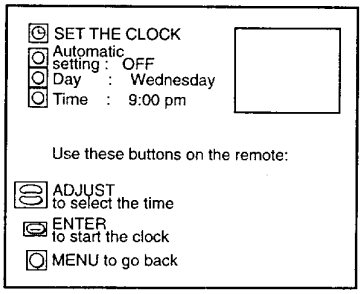
Manual setting


SET THE CLOCK
Automatic setting : OFF
Day : --
Time : --
Use these buttons on the remote:
ADJUST to turn automatic setting on
ENTER to set the day
MENU to go back

❶ Set "Automatic setting" to "OFF" using the ADJUST button; then press the ENTER button.


SET THE CLOCK
Automatic setting : OFF
Day : Wednesday
Time : --
Use these buttons on the remote:
ADJUST to select the day
ENTER to set the time
MENU to go back

❷ Select the day using the ADJUST button; then press the ENTER button.

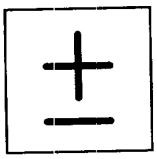

SET THE CLOCK
Automatic setting : OFF
Day : Wednesday
Time : 9:00 pm
Use these buttons on the remote:
ADJUST to select the time
ENTER to start the clock
MENU to go back

❸ Set the time using the ADJUST button. Press the ENTER button when the correct time appears.

The screen will return to the "FIRST TIME SETUP" menu.

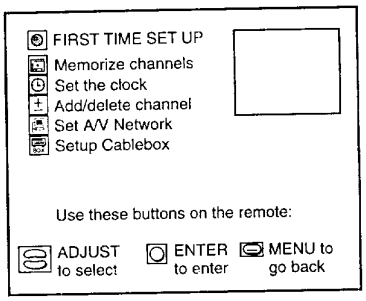
>**Important:** The TV can only set the clock automatically ("Automatic setting") when there is a broadcaster that sends the time via Extended Data Services (EDS).

Adding and deleting channels



Important: When you subscribe to StarSight, add/delete channels on antenna B with the StarSight menus. (Please see **Booklet #3, StarSight Operating Guide."**)

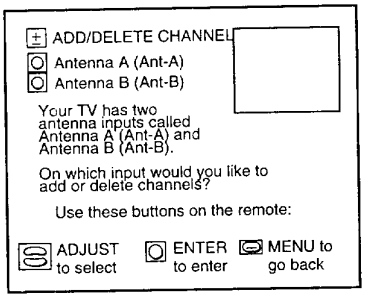
After all available channels have been memorized, you can add or delete any unwanted channels by using the following procedure.



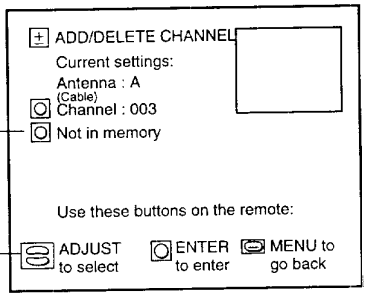
❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "First Time Setup" using the ADJUST button; then press the ENTER button.

❸ Select "Add/delete channel" using the ADJUST button; then press the ENTER button.


ADD/DELETE CHANNEL
Antenna A (Ant-A)
Antenna B (Ant-B)
Your TV has two antenna inputs called Antenna A (Ant-A) and Antenna B (Ant-B).
On which input would you like to add or delete channels?
Use these buttons on the remote:
ADJUST to select
ENTER to enter
MENU to go back

❹ Select either Antenna A or Antenna B (whichever contains the channel you would like to add or delete) using the ADJUST button; then press the ENTER button.



Either "In memory" or "Not in memory" will appear.

Use ADJUST to add when the channel is "Not in memory" or to delete when the channel is "In memory."

❺ Select the channel you would like to add or delete using the ADJUST button; then press the ENTER button. The selected channel will appear in the top right corner of the screen. Channels that are in memory will be labeled, "In memory"; channels not in memory are labeled, "Not in memory."

❻ Follow the additional on-screen instructions, adding a channel into channel memory or deleting a channel from channel memory.

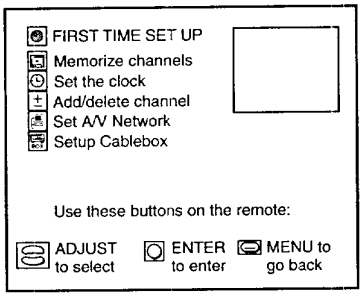
Important: You may switch between the antennas (Antenna A and Antenna B) by pressing the input button (INPUT).

Setting the A/V Network

The A/V Network is a special system that Mitsubishi developed to make it easier to use a home theater system. When the cable is connected between two Mitsubishi products with the A/V Network, you can point the remote control at one product and it will "pass" the remote control command to the other.

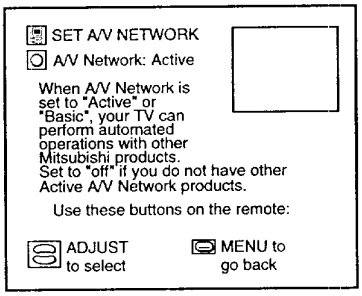
▷**Important:** When you subscribe to StarSight, you will not need to use the Quick Program or Quick Play features. StarSight offers an easy, one-button method for recording programs.

To use the A/V Network:



❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

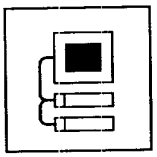
❷ Select "First Time Setup" using the ADJUST button; then press the ENTER button.


SET A/V NETWORK
A/V Network: Active
When A/V Network is set to "Active" or "Basic", your TV can perform automated operations with other Mitsubishi products.
Set to "off" if you do not have other Active A/V Network products.
Use these buttons on the remote:
ADJUST to select
MENU to go back

❸ Select "Set A/V Network" using the ADJUST button; then press the ENTER button. The "SET A/V NETWORK" screen will appear.

❹ Use the ADJUST button to select "Active," "Basic," or "OFF." Check the rear terminals of your VCR, then use the chart below to determine how you should set your TV.

❺ Press the MENU button to return to the "FIRST TIME SET UP" menu.



If your VCR has a rear terminal that reads:	...and you have set your VCR to:	...then set your TV to:
A/V Network	-	Basic
Active A/V Network	OFF	Basic
Active A/V Network	Active	Active
Does not have an A/V Network rear terminal	-	OFF

When an A/V Network cable is connected between the TV and VCR and the following conditions are met, your TV has two additional features.

If...

- ✓ You set up "StarSight," **and**
- ✓ Your VCR is one of the following models: HS-U500, HS-U550, HS-U650, or HS-U770, **and**
- ✓ You have set "A/V Network" on your TV and VCR to "Active."

Then...

- ✓ The TV will control your VCR to record present and future programs.
- ✓ An error message will be displayed when you record from the "StarSight" screen if the VCR is:
  - currently recording;
  - playing a tape;
  - turned off; or
  - if a tape is not inserted into the VCR

▷**Important:** When an A/V Network cable is connected between two products (such as a TV and VCR), you can operate the VCR by pointing the VCR's remote control directly at the TV even if "A/V Network" is set to "OFF."

▷**Important:** If you do not use the A/V Network system, set "A/V Network" to "OFF."

If you are using a Mitsubishi VCR with A/V Network or Active A/V Network, you should have connected the VCR to the External 1 (EXT-1) input of your TV.

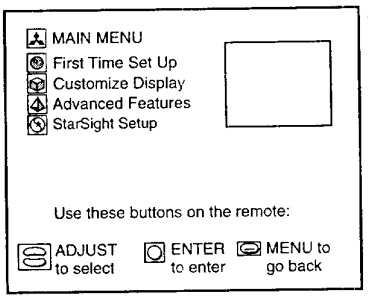
Choosing a menu display

You have three options for displaying the on-screen menus:

The "Standard Menu," provides step-by-step instructions for all features.

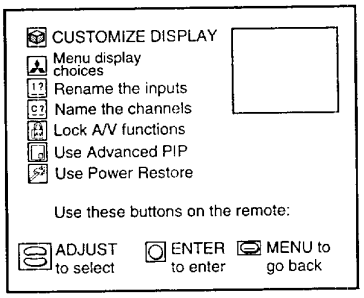
The "Intermediate Menu" lets you choose features directly by selecting an icon (and feature name).

The "Advanced Menu" lets you use menu features directly by selecting a menu icon.

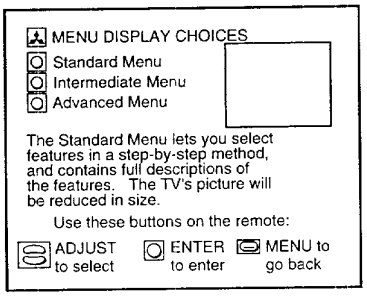


❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "Customize Display" using the ADJUST button; then press the ENTER button.



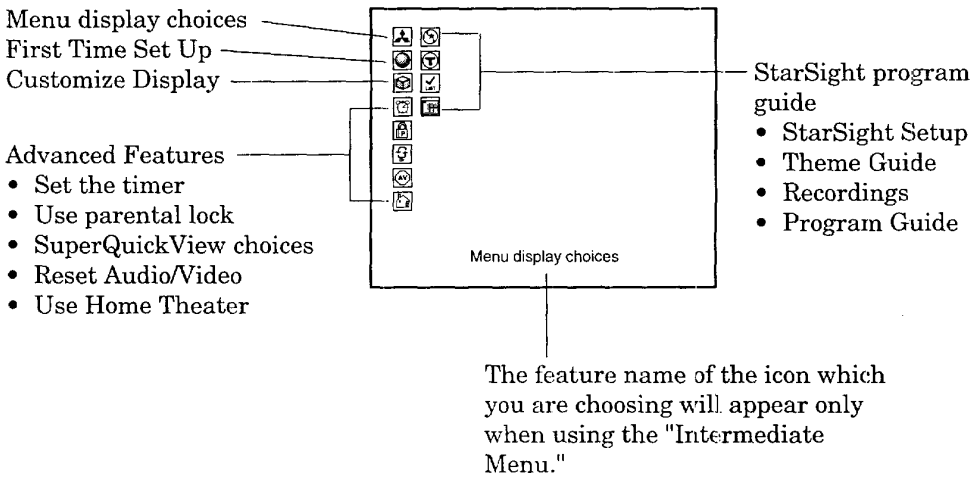
❸ You will see the "CUSTOMIZE DISPLAY" screen. Select "Menu display choices" using the ADJUST button; then press the ENTER button.


MENU DISPLAY CHOICES
Standard Menu
Intermediate Menu
Advanced Menu
The Standard Menu lets you select features in a step-by-step method, and contains full descriptions of the features. The TV's picture will be reduced in size.
Use these buttons on the remote:
ADJUST to select
ENTER to enter
MENU to go back

❹ Use the ADJUST button to select "Standard Menu," "Intermediate Menu," or "Advanced Menu."

❺ Press the ENTER button. When you select the "Standard Menu," the screen will return to the "CUSTOMIZE DISPLAY" menu; when you select the "Intermediate Menu," or "Advanced Menu," the screen will change to your selected main menu display.

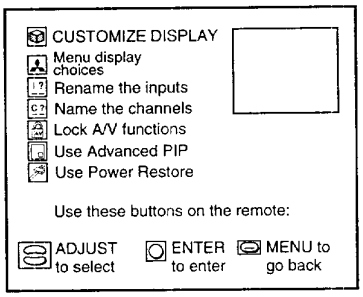
You will see the following "MAIN MENU" display when using the "Intermediate Menu" or "Advanced Menu."


Menu display choices
First Time Set Up
Customize Display
Advanced Features
• Set the timer
• Use parental lock
• SuperQuickView choices
• Reset Audio/Video
• Use Home Theater
StarSight program guide
• StarSight Setup
• Theme Guide
• Recordings
• Program Guide
Menu display choices
The feature name of the icon which you are choosing will appear only when using the "Intermediate Menu."

Important: The "Intermediate Menu" and "Advanced Menu" displays will clear within 1 minute if you do not select a menu item.

Renaming the inputs

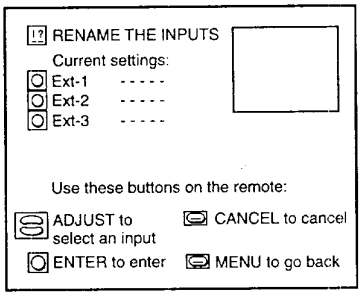
This feature allows you to rename the external inputs. For example, you may want to name one input "VCR," and another, "DISC." The new name will appear on-screen.



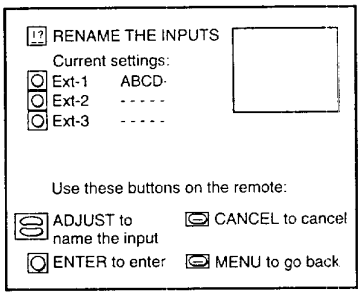
❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "Customize Display" using the ADJUST button; then press the ENTER button.

❸ Select "Rename the inputs" using the ADJUST button; then press the ENTER button.


RENAME THE INPUTS
Current settings:
Ext-1 - - - - -
Ext-2 - - - - -
Ext-3 - - - - -
Use these buttons on the remote:
ADJUST to select an input
CANCEL to cancel
ENTER to enter
MENU to go back

❹ Use the ADJUST button to select which input (Ext-1, Ext-2 or Ext-3) you want to rename. Then press the ENTER button.


RENAME THE INPUTS
Current settings:
Ext-1 ABCD
Ext-2 - - - - -
Ext-3 - - - - -
Use these buttons on the remote:
ADJUST to name the input
CANCEL to cancel
ENTER to enter
MENU to go back

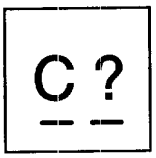
❺ Choose the new name using the ADJUST button and the ENTER button.

You can rename the inputs using letters (A~Z), numbers (0~9), or symbols (: / . , ( ) ! " # $ % & ' * + ; < = > ? blank -).

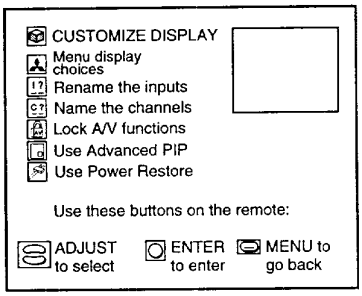
You can always clear the selected input by pressing the CANCEL button.

After naming, press the MENU button; the screen will return to the "CUSTOMIZE DISPLAY" menu.

Naming the channels



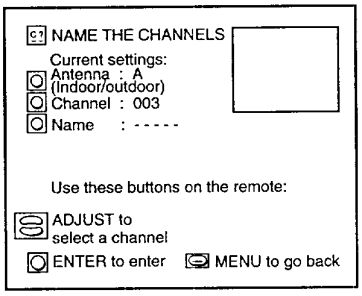
This feature lets you name the channels. Afterwards, the channel name will appear on the TV screen.



❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "Customize Display" using the ADJUST button; then press the ENTER button.

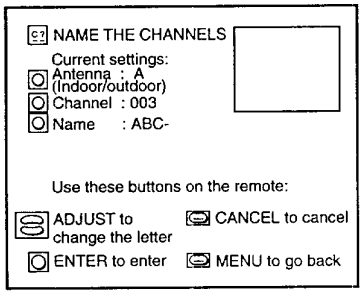
❸ Select "Name the channels" using the ADJUST button; then press the ENTER button.


NAME THE CHANNELS
Current settings:
Antenna : A (Indoor/outdoor)
Channel : 003
Name : - - - - -
Use these buttons on the remote:
ADJUST to select a channel
ENTER to enter
MENU to go back

❹ Select an antenna using the ADJUST button; then press the ENTER button.

❺ Select a channel to name using the ADJUST button and the ENTER button.

❻ Set the new name using the ADJUST button and the ENTER button.

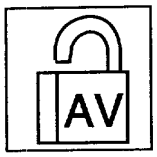


You can name the channels using letters (A~Z), numbers (0~9), or symbols (: / . , ( ) ! " # $ % & ' * + ; < = > ? blank -).

While you are setting the name, you can clear the name by pressing the CANCEL button. After naming, press the MENU button; the screen will return to the "CUSTOMIZE DISPLAY" menu.

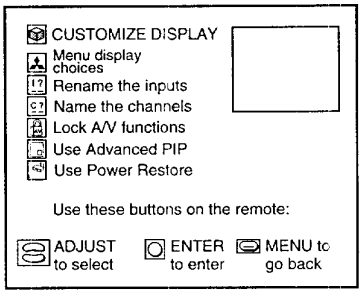
▷**Important:** You can name up to sixty channels. If you try to name more than sixty channels, you will see an on-screen message that says "Memory over !" This indicates that the memory is full.

If you subscribe to StarSight, the StarSight system will automatically name the channels.

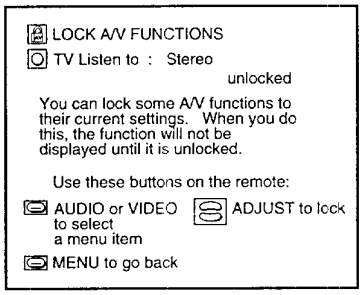


Locking A/V functions

You can lock some audio and video functions to their current settings. Once you lock a particular setting, that function will not be displayed on-screen until you unlock it.

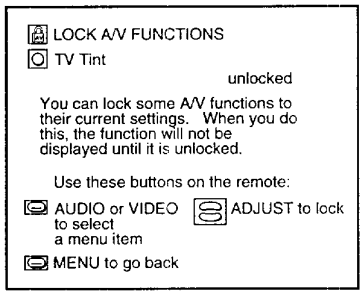


1. Press the MENU button on the remote control. The MAIN MENU will appear on the screen.
2. Select "Customize Display" using the ADJUST button; then press the ENTER button.
3. Select "Lock A/V functions" using the ADJUST button; then press the ENTER button.


LOCK A/V FUNCTIONS
TV Listen to : Stereo
unlocked
You can lock some A/V functions to their current settings. When you do this, the function will not be displayed until it is unlocked.
Use these buttons on the remote:
AUDIO or VIDEO to select a menu item
ADJUST to lock
MENU to go back

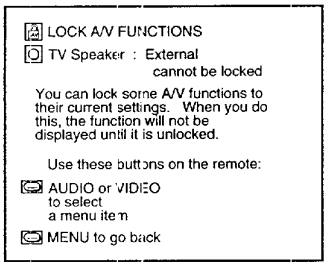
4. To lock an audio function, select the audio function to lock using the AUDIO button.

   To lock a video function, select the video function to lock using the VIDEO button.

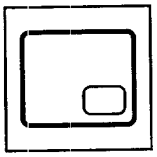

LOCK A/V FUNCTIONS
TV Tint
unlocked
You can lock some A/V functions to their current settings. When you do this, the function will not be displayed until it is unlocked.
Use these buttons on the remote:
AUDIO or VIDEO to select a menu item
ADJUST to lock
MENU to go back

5. Use the ADJUST button to switch between "locked" and "unlocked."
6. Press the MENU button to return to the "CUSTOMIZE DISPLAY" menu.

Important: The speaker functions (internal/internal center channel/external) and closed captioning (CC) cannot be locked. If you try to lock these functions, the on-screen display shows:

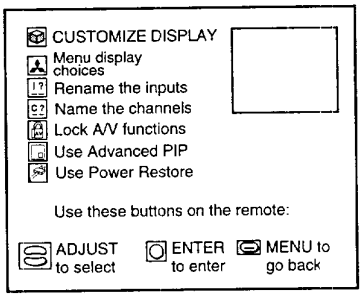

LOCK A/V FUNCTIONS
TV Speaker : External
cannot be locked
You can lock some A/V functions to their current settings. When you do this, the function will not be displayed until it is unlocked.
Use these buttons on the remote:
AUDIO or VIDEO to select a menu item
MENU to go back

Using the advanced PIP functions



You can use the pause button in the Picture-in-Picture mode to display special PIP features. (See "Using Picture-in-Picture [PIP]," page 60.)

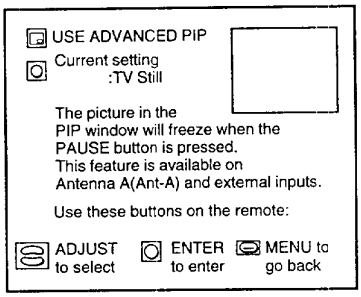
- In **"TV Still,"** the PIP image switches between still and moving.
- In **"Snap-shot,"** you can freeze a scene, and display a moving PIP image and up to two still images on the screen.
- In **"Replay,"** you can view the still PIP images in sequence for a "strobe" animation effect. These images will appear in sets of three (from a total of seven stored images) at the speed you select.



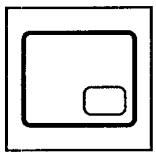
❶ Press the MENU button on the remote control. The TV Main Menu will appear on the screen.

❷ Select "Customize Display" using the ADJUST button; then press the ENTER button.

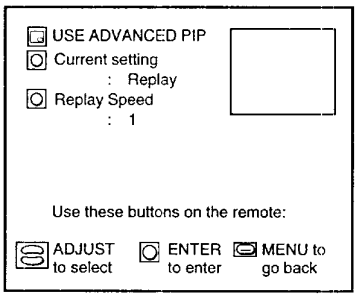
❸ Select "Use Advanced PIP" using the ADJUST button; then press the ENTER button.


USE ADVANCED PIP
Current setting :TV Still
The picture in the PIP window will freeze when the PAUSE button is pressed.
This feature is available on Antenna A(Ant-A) and external inputs.
Use these buttons on the remote:
ADJUST to select
ENTER to enter
MENU to go back

❹ Select a setting: TV Still, Snap-shot or Replay, using the ADJUST button. Then press the ENTER button.



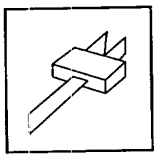
Using the advanced PIP functions (cont.)



- When you select "Replay," the next option will be "Replay speed." Use the ADJUST button to set the replay speed from 1-9: 1=short interval and 9=long interval. (The ADJUST up button will change the speed to a higher number; ADJUST down button will change to a lower number.) Press ENTER. The main image will replay in sets of three in a "strobe" animation effect at the speed you selected.

❺ Press the MENU button to return to the "CUSTOMIZE DISPLAY" menu.

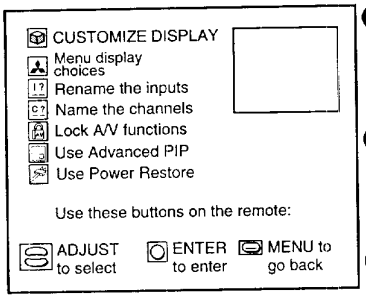
Using the power restore feature



When you use this feature, the TV will automatically turn on when electric current is supplied. This feature is useful when your TV is plugged into an outlet that you control with a wall switch.

▷**Important:** When using StarSight, you must have a constant source of power for the feature to properly work. Do not plug your TV into an A/V receiver or a power source controlled by a wall switch when you subscribe to StarSight. Do not use this feature if you subscribe to StarSight.

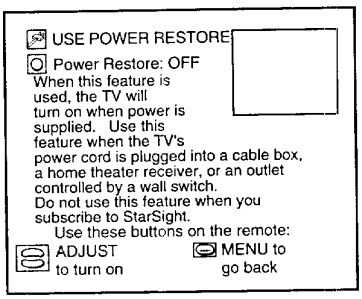
To use power restore:



❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "Customize Display" using the ADJUST button; then press the ENTER button.

❸ Select "Use Power Restore" using the ADJUST button; then press the ENTER button.


USE POWER RESTORE
Power Restore: OFF
When this feature is used, the TV will turn on when power is supplied. Use this feature when the TV's power cord is plugged into a cable box, a home theater receiver, or an outlet controlled by a wall switch. Do not use this feature when you subscribe to StarSight.
Use these buttons on the remote:
ADJUST to turn on
MENU to go back

❹ The "USE POWER RESTORE" screen will appear. Use the ADJUST button to switch to "ON."

❺ Press the MENU button to return to the "CUSTOMIZE DISPLAY" menu.

▷**Important:** For this feature to work, you must leave your TV turned on when you turn off the electric current.

▷**Important:** Even when you use power restore, unplugging the set requires that you reset functions such as the built-in clock and timing functions.

Adjusting the sound

You can adjust all of your television's audio functions by using a pair of buttons: AUDIO to choose an audio function; ADJUST to adjust it.

After adjusting the sound, an on-screen display will indicate the function and level you've selected.

what you'll adjust:

✓ **"Listen to: Stereo/SAP/Mono"** allows you to change the audio to stereo, separate audio programming (SAP), or monaural (mono), depending on the type of broadcast you are receiving.

- The "**Stereo**" setting allows you to receive both mono and stereo broadcasts.
- The **separate audio programming ("SAP")** setting offers you the option of listening to either of two separate audio programs. For example, a combination television/radio station may broadcast through the TV.
- The **"Mono"** setting reduces unwanted background noise when you receive a weak stereo broadcast. When you use the "Mono" setting, you will hear the broadcast in monaural even when the broadcast signal is in stereo.

▷**Important:** An on-screen display appears when programs are broadcast in stereo or when separate audio programming (SAP) is available.

✓ **"Bass"** controls the volume of low frequency sound.

✓ **"Treble"** controls the volume of high frequency sound.

✓ **"Woofer"** adjusts the sound level of the super woofer speaker.

✓ **"Balance"** adjusts the level of sound between the left and right speakers.

✓ **"Surround: Off/Simulate/Hall"** allows you to simulate or expand stereo sound.

- **"Off"** does not change the sound.
- **"Simulate"** gives you a pseudo-stereo effect when receiving monaural sound broadcasts.
- **"Hall"** makes stereo sound seem wider and extend around behind you.

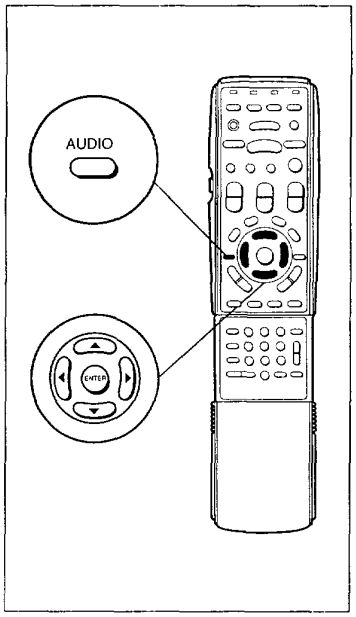
✓ **"Speaker: Internal/Internal Center Channel/External"** lets you choose a speaker to listen to (built-in or external).

- Set to **"Internal"** to hear the TV's built-in speakers.
- Set to **"Internal Center Channel"** when you connect the center channel input terminal to an amplifier that delivers surround sound. Your television's speaker will play the center channel signal from your amplifier.
- Set to **"External"** when you connect the TV to external speakers or audio system.

✓ **"Monitor out: Variable/Fixed"** lets you set up the TV for use with a home theater receiver or audio system.

- Choose **"Variable"** when you wish to use the TV remote control for such functions as volume and mute.
- Choose **"Fixed"** if you connected a home theater receiver or audio system. This lets you control functions such as volume and mute through the receiver or audio system.

▷**Important:** When you subscribe to StarSight, only the ADJUST (right/left) buttons will adjust the audio functions. The ADJUST (up/down) buttons are used for StarSight functions.



adjusting the audio functions

❶ Use the AUDIO button on the remote control to select one of the functions.

❷ Use the ADJUST (up/down) button or right/left button on the remote control to adjust the function.

Adjusting the picture

You can adjust all of your television's picture functions by using a pair of buttons: VIDEO to choose a picture function; ADJUST to adjust it.

Important: When you subscribe to StarSight, only the ADJUST (right/left) buttons will adjust the video functions. The ADJUST (up/down) buttons are used for StarSight functions.

what you'll adjust:

✓ **"Tint"** adjusts the proportion of red to green that determines the tones of color.

✓ **"Color"** determines the intensity of the color.

✓ **"Contrast"** controls the level of white-to-black in the picture.

✓ **"Brightness"** controls the light level of the image on screen.

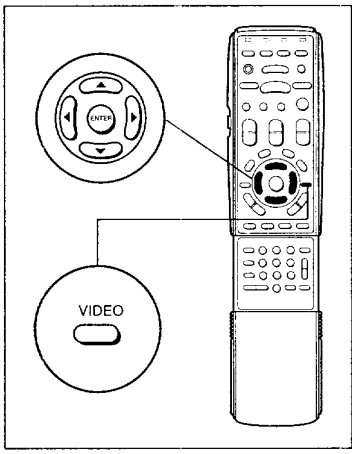
✓ **"Sharpness"** adjusts the detail and clarity of the picture.

✓ **"Video N(oise) R(eduction): On/Off"** is used to reduce background noise that can occur with weak signals. Usually this function is set to "Off".

✓ **"Color temp(erature): Low/Middle/High"** is used to change the relative warmth of the picture.

✓ **"Color bias: Average/Accurate/Skin-tone"** is used to improve the color reproduction.

✓ **"CC (closed captioning): 1/2/3/4/Text 1/Text 2/Text 3/Text 4/When muting/Off"** is used to display text on the TV screen.



adjusting the video functions

1. Use the VIDEO button on the remote control to select one of the functions.
2. Use the ADJUST (up/down) button or right/left button on the remote control to adjust the function.

Using the closed caption decoder

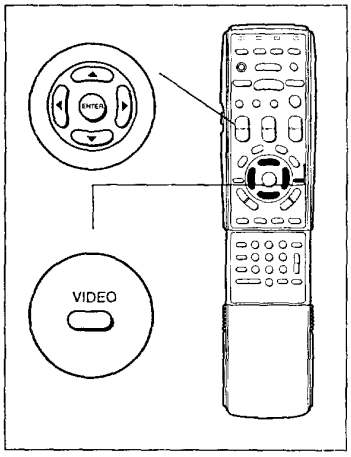
Many broadcasters now supply closed captioning information along with their regular broadcasts.

There are two types of captioning that broadcasters can send: **"standard"** and **"text."**

Standard captioning displays text that is related to the program that is being shown. Standard captioning usually follows the dialogue of the characters on-screen.

Text captioning often contains information such as weather or news. Text captioning may block your view of the program you are watching.

Your TV can decode four different "standard captioning" signals and four different "text captioning" signals on each TV channel (when supplied by the broadcaster).



To use the closed caption decoder:

1. Press the VIDEO button on the remote control until the closed captioning (CC) display appears on the screen.
2. Press the ADJUST (right/left) button on the remote control to select the captioning signal you wish to display: CC 1/ CC 2/ CC 3/ CC 4/ CC Text 1/ CC Text 2/ CC Text 3/ CC Text 4/ CC When muting/ Off.

You can choose to display one of four "standard captioning" signals (indicated by the word CC and a number), to display one of four "text captioning" signals (indicated by the word "Text" and a number), to display captions when muting, or to turn the captions off.

▷**Important:** If you select "When muting," the standard captioning signal CC 1 will appear whenever you use the MUTE button.

Closed captioning was initially designed so that those with hearing difficulties can enjoy viewing television more. However, closed captioning can also be used in other ways, such as:

- helping children learn to read,
- learning a foreign language, and
- using the television without disturbing others.

◆ Using the Advanced Features

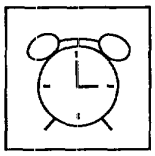
This section explains how to use the more advanced features of your Mitsubishi TV.

>**Important:** For information on operating StarSight, please see **Booklet #3, "StarSight Operation Guide."**

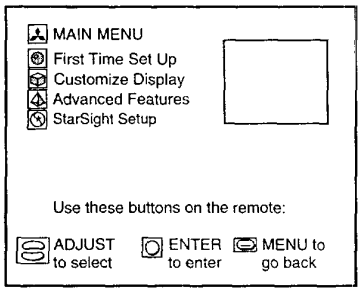
In this chapter, you will learn about:

- **Setting the timer,**
- **Using the parental lock,**
- **Using Super Quick View,**
- **Using home theater, and**
- **Resetting the sound and the picture.**

Setting the timer

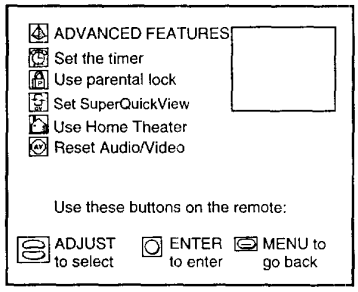


This special feature allows you to program the TV to turn on automatically at a preset time. To set the timer:

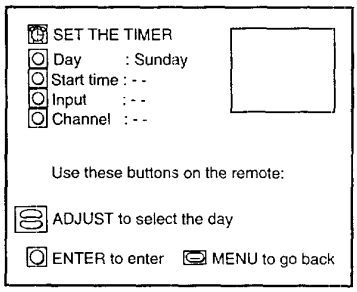


❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "Advanced Features" using the ADJUST button; then press the ENTER button.



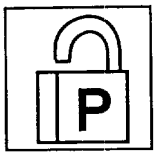
❸ You will see the "ADVANCED FEATURES" screen. Select "Set the timer" using the ADJUST button; then press the ENTER button.


SET THE TIMER
Day : Sunday
Start time : - -
Input : - -
Channel : - -
Use these buttons on the remote:
ADJUST to select the day
ENTER to enter
MENU to go back

❹ Follow the additional on-screen instructions to set Day, Start time, Input and Channel.

After setting the timer, check to see that the program timer indicator lights up. The indicator will not light up when using the menus, or when the parental lock message is being displayed.

Important: When the timer turns the TV on, the display will flash as a warning. If you do not press a TV function button for about 5 minutes, the TV will automatically turn off again. If you press a TV function button, (eg. display button), the TV will remain on and the display will stop flashing.



Using the parental lock

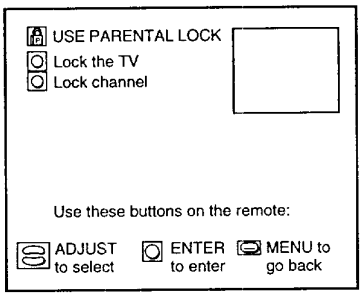
locking the TV

This special feature locks the entire TV or one particular channel to prevent others from watching it.

❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "Advanced Features" using the ADJUST button; then press the ENTER button.

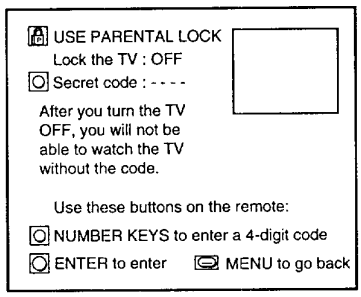
❸ Select "Use parental lock" using the ADJUST button; then press the ENTER button.



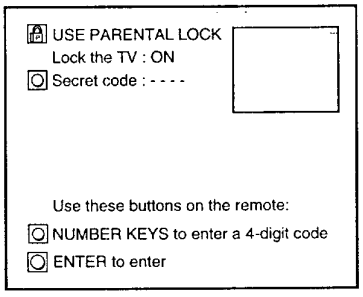
❹ Select "Lock the TV" using the ADJUST button; then press the ENTER button. The message for locking the TV will appear.

❺ Enter a secret, four digit code using the number buttons (0-9); then press the ENTER button.

>**Important:** You cannot use the timer when the TV is locked.

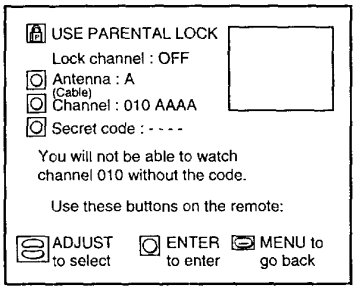

USE PARENTAL LOCK
Lock the TV : OFF
Secret code : - - - -
After you turn the TV OFF, you will not be able to watch the TV without the code.
Use these buttons on the remote:
NUMBER KEYS to enter a 4-digit code
ENTER to enter
MENU to go back

- When you set the parental lock to "ON" and the lock message appears on the screen, the TV will turn off again in about 5 minutes unless you enter the code to unlock it.
- The lock message appears when you turn the TV on until you set the parental lock to "OFF." You can clear the code by pressing the CANCEL button.


USE PARENTAL LOCK
Lock the TV : ON
Secret code : - - - -
Use these buttons on the remote:
NUMBER KEYS to enter a 4-digit code
ENTER to enter

- When you set "Lock the TV" to "ON," you will see a message when you next turn the television on asking you to enter your secret code.

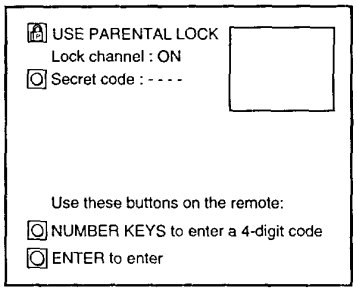
locking a channel


USE PARENTAL LOCK
Lock channel : OFF
Antenna : A
(Cable)
Channel : 010 AAAA
Secret code : - - - -
You will not be able to watch channel 010 without the code.
Use these buttons on the remote:
ADJUST to select
ENTER to enter
MENU to go back

❶ Select "Lock the channel."

- Following the additional on-screen instructions, set Antenna and Channel using the ADJUST button and the ENTER button.

❷ Enter the secret code in four digits using the number buttons (0-9); then press the ENTER button.

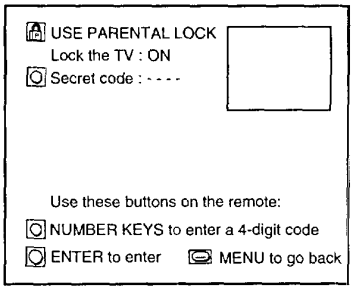

USE PARENTAL LOCK
Lock channel : ON
Secret code : - - - -
Use these buttons on the remote:
NUMBER KEYS to enter a 4-digit code
ENTER to enter

You can clear the code pressing the CANCEL button.

- When you set "Lock channel" to "ON," you will see a message when you next select the channel asking you to enter your secret code.

❸ Press the channel control (CHANNEL) or input button (INPUT) to view an unlocked channel.

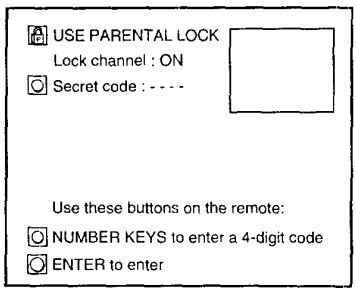
canceling the parental lock


USE PARENTAL LOCK
Lock the TV : ON
Secret code : - - - -
Use these buttons on the remote:
NUMBER KEYS to enter a 4-digit code
ENTER to enter
MENU to go back

❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "Advanced Features" using the ADJUST button; then press the ENTER button.

❸ Select "Use parental lock" using the ADJUST button; then press the ENTER button.


USE PARENTAL LOCK
Lock channel : ON
Secret code : - - - -
Use these buttons on the remote:
NUMBER KEYS to enter a 4-digit code
ENTER to enter

❹ Using the ADJUST button, select the lock you want to cancel; then press the ENTER button.

❺ Enter the four digits of your secret code using the number buttons (0-9); then press the ENTER button.

❻ Press the MENU button to return to the "ADVANCED FEATURES" menu.

>**Important:** If you forget the parental lock code, please see page 79.

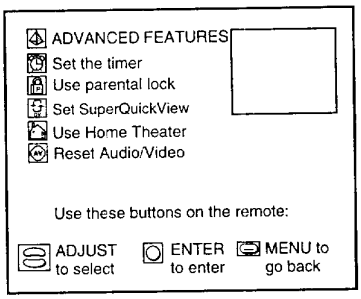
Using Super Quick View

Super Quick View lets you cycle through as many as ten TV stations when you press the SQV button.

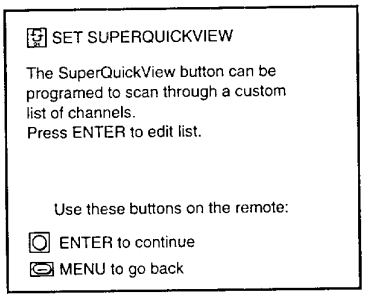
- when not using "StarSight" -

❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

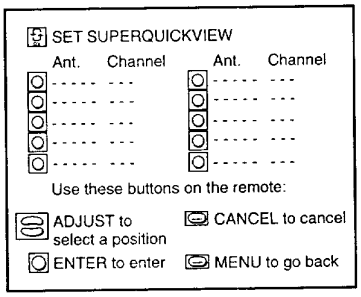
❷ Select "Advanced Features" using the ADJUST button; then press the ENTER button.



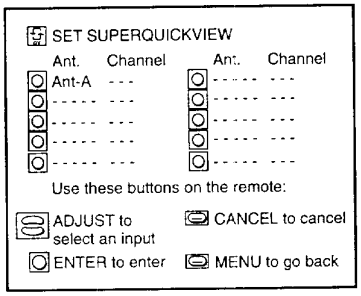
❸ Select "Set SuperQuickView" using the ADJUST button; then press the ENTER button.


SET SUPERQUICKVIEW
The SuperQuickView button can be programed to scan through a custom list of channels.
Press ENTER to edit list.
Use these buttons on the remote:
ENTER to continue
MENU to go back

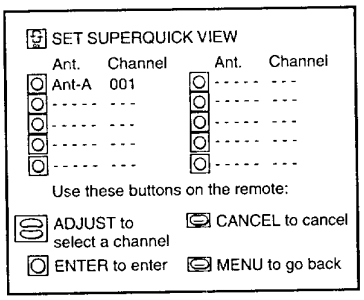
❹ The message for setting the super quick view will appear. Press the ENTER button to edit the SQV channel list.



❺ Select a position to store a TV channel using the ADJUST button; then press the ENTER button.



❻ Use the ADJUST button to select an antenna. Then press the ENTER button.

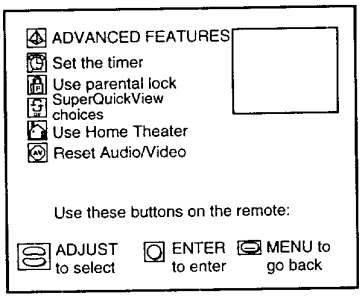


❼ Set a channel number to program into Super Quick View memory using the ADJUST button and the number buttons; then press the ENTER button.

Continue setting the inputs and channel numbers until your desired channels are programmed into Super Quick View memory.

❽ Press the MENU button to return to the "ADVANCED FEATURES" menu.

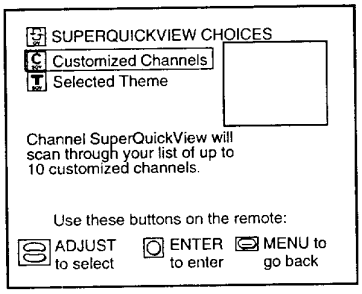
- when using "StarSight" -



❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "Advanced Features" using the ADJUST button; then press the ENTER button.

❸ Select "SuperQuickView choices" using the ADJUST button; then press the ENTER button.

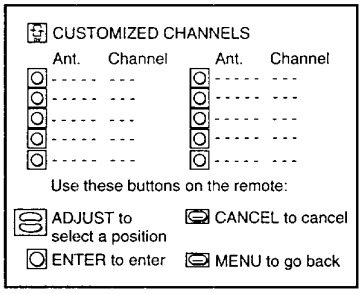

SUPERQUICKVIEW CHOICES
Customized Channels
Selected Theme
Channel SuperQuickView will scan through your list of up to 10 customized channels.
Use these buttons on the remote:
ADJUST to select
ENTER to enter
MENU to go back

❹ Select the way you want to use the super quick view (SQV) button by choosing either "Customized Channels" or "Selected Theme" using the ADJUST button; then press the ENTER button.

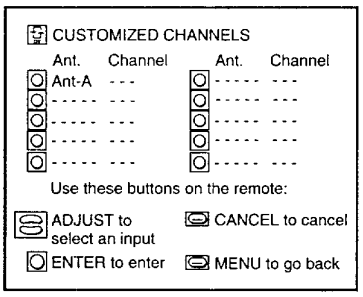
Important: For more information about using Super Quick View with StarSight, please see **Booklet #3, "StarSight Operating Guide."**

Using Super Quick View (cont.)

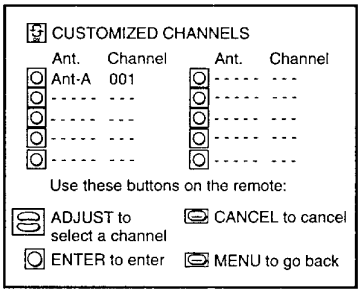
-selecting "Customized Channels"



❶ Select a position to store a TV channel using the ADJUST button; then press the ENTER button.



❷ Use the ADJUST button to select an input. Then press the ENTER button.



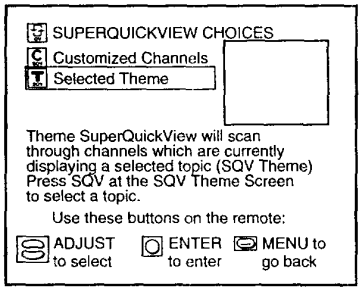
❸ Set a channel number to program into Super Quick View memory using the ADJUST button and the number buttons; then press the ENTER button.

Continue setting the inputs and channel numbers until your desired channels are programmed into Super Quick View memory.

- Press the MENU button to return to the "ADVANCED FEATURES" menu.

▷**Important:** You can clear each setting (input or channel) by pressing the CANCEL button.

-using "Selected Theme" To use the "Selected Theme" feature, please see **Booklet #3, "StarSight Operating Guide."**

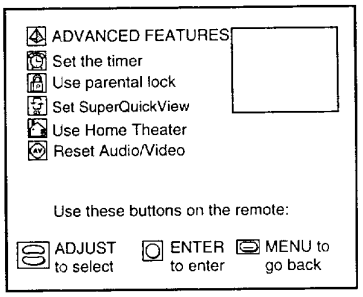

SUPERQUICKVIEW CHOICES
Customized Channels
Selected Theme
Theme SuperQuickView will scan through channels which are currently displaying a selected topic (SQV Theme) Press SQV at the SQV Theme Screen to select a topic.
Use these buttons on the remote:
ADJUST to select
ENTER to enter
MENU to go back

Using home theater

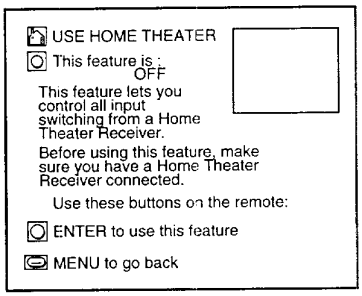
Use this feature if you connected a Home Theater Receiver. It will set your TV to external 1 (EXT-1).

❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "Advanced Features" using the ADJUST button; then press the ENTER button.

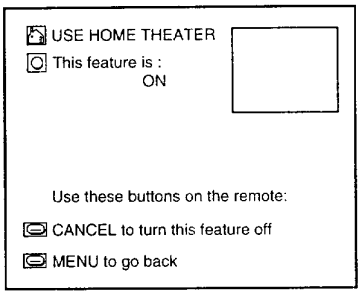


❸ Select "Use Home Theater" using the ADJUST button; then press the ENTER button.


USE HOME THEATER
This feature is : OFF
This feature lets you control all input switching from a Home Theater Receiver.
Before using this feature, make sure you have a Home Theater Receiver connected.
Use these buttons on the remote:
ENTER to use this feature
MENU to go back

❹ The message explaining this feature will appear. Press the ENTER button to turn home theater ON.

❺ The screen will return to the "ADVANCED FEATURES" menu.



- After turning home theater ON, you will see a message when you select the "Use Home Theater" menu function.

  To turn this feature off, press the CANCEL button.

▷**Important:** When you set this feature to "ON,"
- The input source will be fixed to external 1 (EXT-1),
- The input button (INPUT) will switch between antennas A and B (ANT-A/B), and
- All input switching will be controlled by a Home Theater Receiver. (See your Home Theater Receiver's Owner's Guide for more information.)

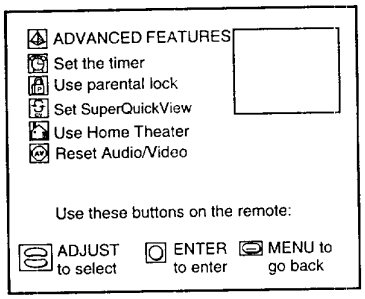
Resetting the sound and the picture

This feature allows you to reset all audio and video functions to their normal level or setting.

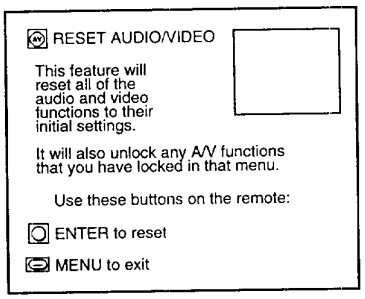
Certain settings will not reset, including volume, reception mode (Stereo/SAP/Mono), Woofer, TV Speaker (Internal/Internal Center Channel/External) and monitor out (Variable/Fixed).

❶ Press the MENU button on the remote control. The MAIN MENU will appear on the screen.

❷ Select "Advanced Features" using the ADJUST button; then press the ENTER button.



❸ Select "Reset Audio/Video" using the ADJUST button; then press the ENTER button.


RESET AUDIO/VIDEO
This feature will reset all of the audio and video functions to their initial settings.
It will also unlock any A/V functions that you have locked in that menu.
Use these buttons on the remote:
ENTER to reset
MENU to exit

❹ The message for resetting the audio and video functions will appear. Press the ENTER button to reset.

❺ The screen will return to the "ADVANCED FEATURES" menu.

▷**Important:** This feature will also unlock any A/V functions that you have locked in the "Lock A/V functions" menu.

▷**Important:** You can use AV reset button on the control panel to reset audio and video functions as well.

CHAPTER 3

Using the Special Features

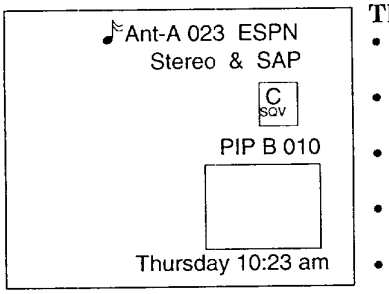
In addition to the basic and advanced functions explained in the previous chapter, this TV offers the user several special features not generally available on other brand TVs. This chapter will explain how to use these distinctive features. It contains the following topics:

- **Understanding the On-Screen Displays**
- **Using the Off-Timer**
- **Using Picture-in-Picture (PIP)**
- **Using the Active A/V Network Features**

◆ Understanding the On-Screen Displays

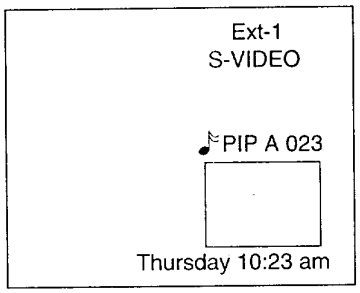
Your TV provides on-screen displays of its current settings, including information about the Extended Data Services (EDS).

To view this information, press the display button (DISPLAY) on the remote control repeatedly.



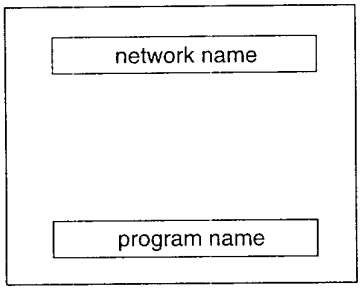
This display indicates:

- the sound is coming from the main image,
- input source, (antenna), channel number and name,
- stereo and/or SAP are available for reception on this channel,
- this channel is programmed into super quick view memory (SQV),
- PIP input source (when you select a PIP image) and,
- day of the week and time.

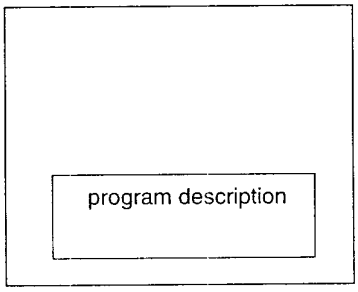


This display indicates:

- input source (external source) and or the input name,
- S-VHS cable has been connected,
- the sound is coming from the PIP image,
- PIP input source (when you select the PIP image),
- day of the week and time.



This display shows you where the network name and program name will appear if the broadcaster is supplying that information via EDS.



This display shows you where the program description will appear if the broadcaster is supplying that information via EDS.

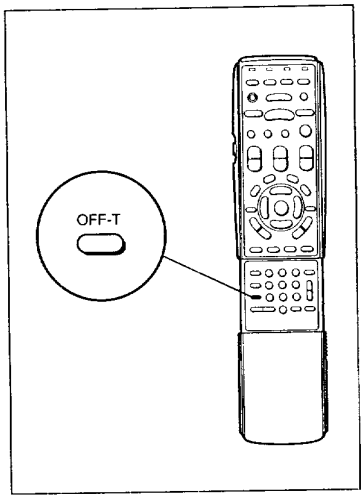
If the broadcaster is not supplying information via EDS, then the message of "no data" will appear ("No name available," "No description available"). Additionally, the "call letters" will not appear.

◆ Using the Off-Timer

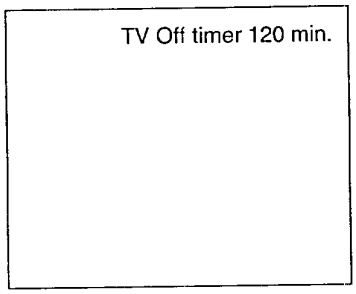
This special function allows you to set the TV to turn off automatically. You can set the TV to turn off from 10 to 120 minutes (2 hours). In this section you'll learn:

- **Setting the off-timer, and**
- **Changing or canceling the off-timer.**

Setting the off-timer



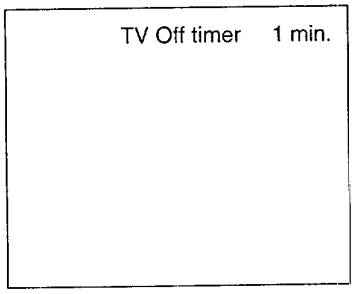
❶ Press the off-timer button (OFF-T) on the remote control.



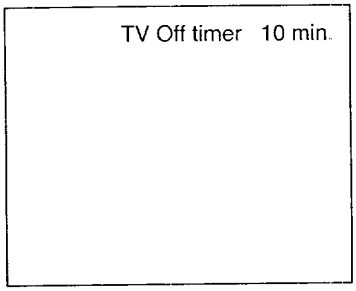
❷ Select how long you want the TV to stay on by repeatedly pressing the off-timer button (OFF-T). The time will decrease in 10 minute intervals each time you press the button.

❸ To view the amount of time: press the off-timer button (OFF-T) once. The on-screen display indicates "off-timer" and shows the amount of time remaining.

▷**Important:** During the last minute before the TV is set to turn off, "Off-timer 1 min." will flash in red to remind you that the off-timer is set.



Changing or canceling the off-timer



❶ Press the off-timer button (OFF-T) on the remote control. An on-screen display shows the amount of time remaining until the TV will turn off.

❷ Continue pressing the off-timer button (OFF-T) repeatedly to change the remaining time or cancel the off-timer. The off-timer is canceled when "---" appears instead of the remaining time.

◆ Using Picture-in-Picture (PIP)

One of the special features of the TV is the picture-in-picture (PIP) mode, which allows you to view two different pictures at the same time. In this section you'll learn:

- **Selecting the PIP image,**
- **Selecting the source and channel,**
- **Exchanging and moving the PIP image,**
- **Switching the sound reception,**
- **Freezing the PIP image,**
- **Using the Snap-shot feature, and**
- **Using the Replay feature.**

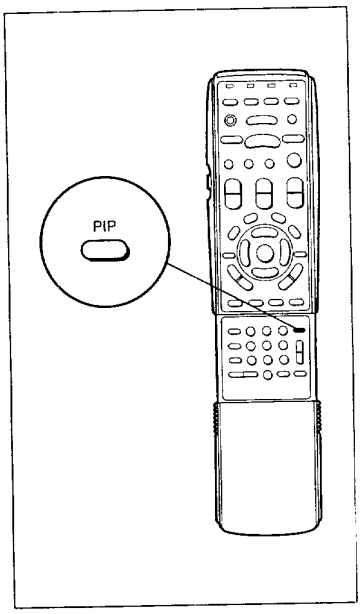
! AN IMPORTANT NOTE ABOUT PIP !

If you are watching your TV on Antenna B and select Antenna A as a PIP source:

- you will see a live action image in the PIP window, but
- you should not exchange the main image for the small one.

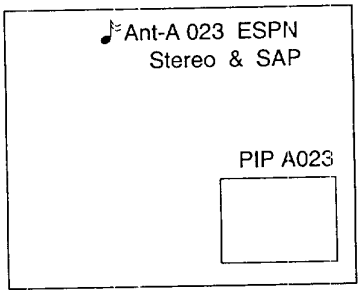
If you exchange images when Antenna A is the PIP source while watching TV in Antenna B, you cannot exchange back to Antenna B. You will need to use the INPUT button to return to viewing TV on Antenna B.

Selecting the PIP image

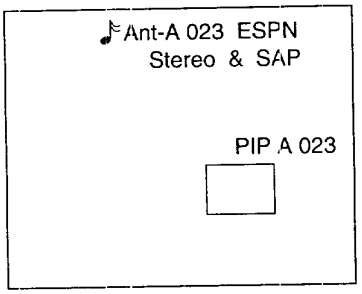


❶ Select the number of the TV channel you want to view by using the channel control (CHANNEL).

❷ Press the PIP button. A reduced image will appear in the bottom right corner of the screen.



❸ Press PIP again; the size of the reduced image will change.

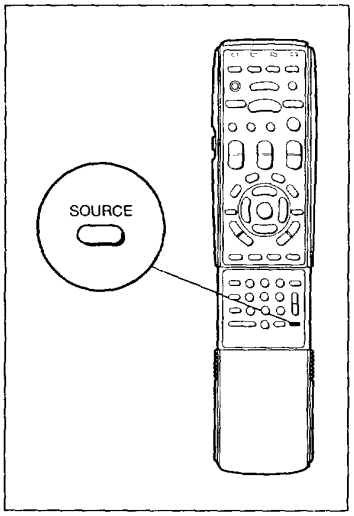


❹ Press the PIP button once again to cancel the PIP image.

▷**Important:** When the main image is monochrome (black and white), the PIP image will also appear in black and white even if the PIP source is in color.

Selecting the source and channel

To select the source:



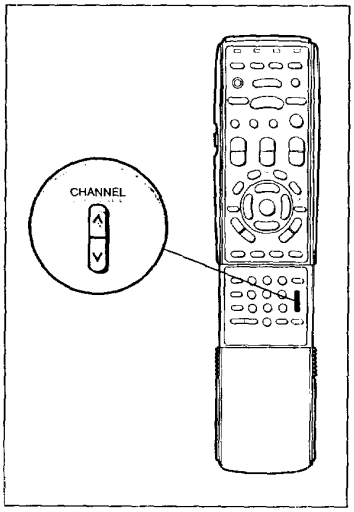
❶ Press the source button (SOURCE) on the remote control repeatedly to select the source of the PIP image.

❷ The PIP image will change as follows.

TV → Ext-1 → Ext-2 → Ext-3

▷**Important:** You cannot select Antenna B as a PIP source when watching Antenna A.

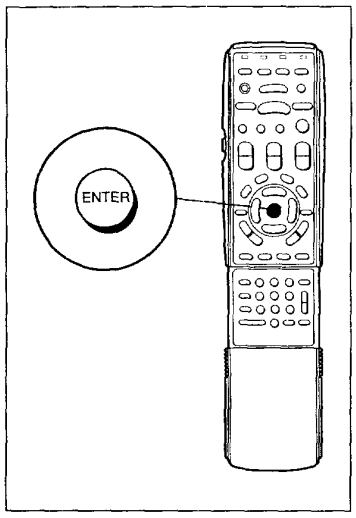
To select the channel:



Press the PIP channel button (CHANNEL) on the remote control to change the channel of the PIP image.

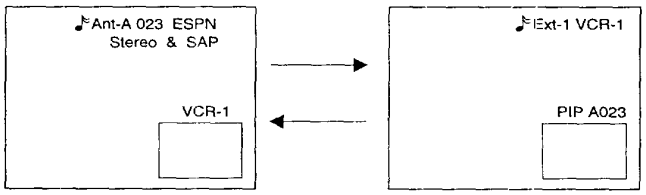
Exchanging and moving the PIP image

To exchange images:

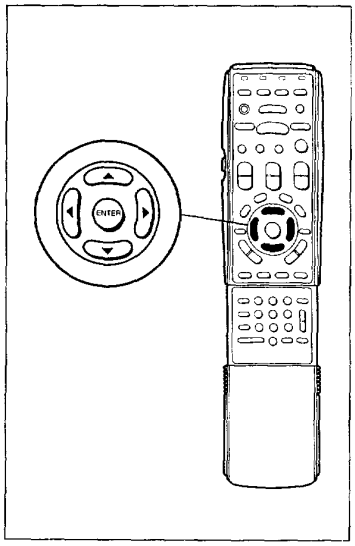


Press the enter (ENTER) button to exchange the positions of the background image and the reduced image.

Remember: you should not exchange images when the main image is Antenna B and the PIP image is Antenna A. (Please see page 60 for more information.)

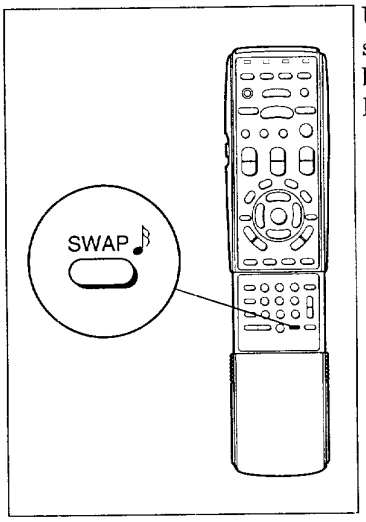


To move the PIP image:

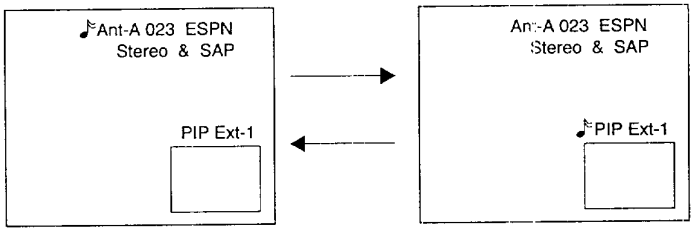


Press the ADJUST up/down or ADJUST right/left button to move the reduced image to any position on the screen.

Switching the sound reception

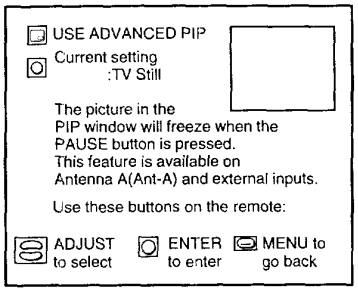


Use the swap button (SWAP) to switch the sound of the speaker between the main image and the PIP.

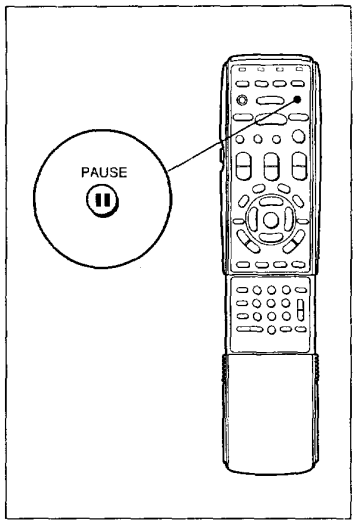


▷**Important:** The sound from the PIP image will not be in stereo.

Freezing the PIP image

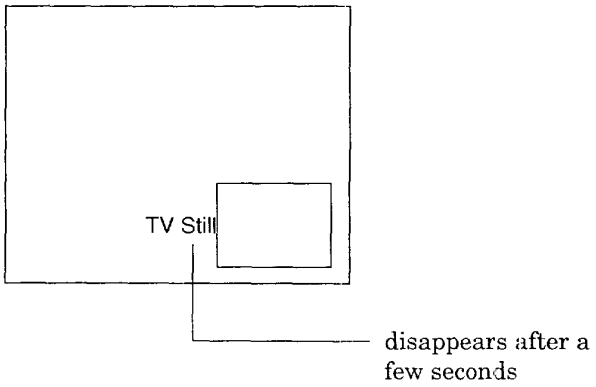


1. Select "Use Advanced PIP" in "Customize Display" menu; then set the current setting to "TV Still."
2. Use the MENU button to return to the normal picture.

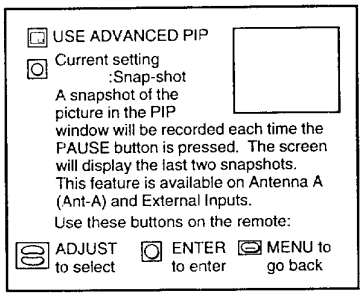


3. Press the pause button (PAUSE) to freeze the reduced image on the screen.
4. Press again to cancel the image freezing.

▷**Important:** When you press the pause button while viewing the normal picture, the PIP image will appear and be frozen.

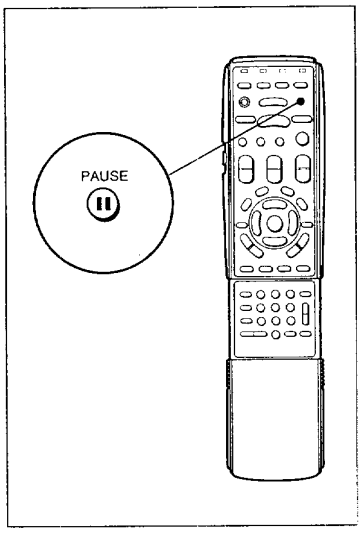


Using the Snap-shot feature


USE ADVANCED PIP
Current setting
:Snap-shot
A snapshot of the picture in the PIP window will be recorded each time the PAUSE button is pressed. The screen will display the last two snapshots. This feature is available on Antenna A (Ant-A) and External Inputs.
Use these buttons on the remote:
ADJUST to select
ENTER to enter
MENU to go back

❶ Select "Use Advanced PIP" in the "Customize Display" menu; then set the current setting to "Snap-shot.'

❷ Use the MENU button to return to the normal picture.



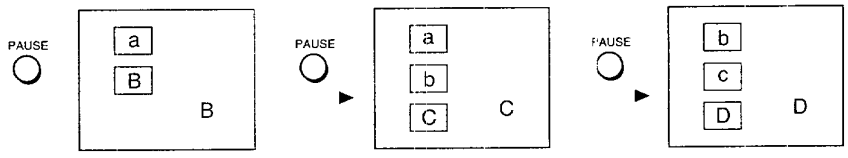
❸ Press the pause button (PAUSE); the frozen PIP image and the moving PIP image will appear.

❹ Press the PAUSE button again; the third PIP image will appear, moving. The previous two PIP images will be frozen.

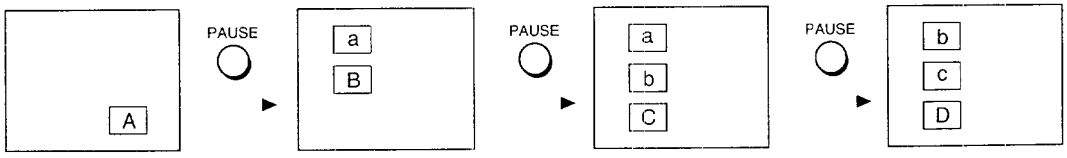
❺ Each time you press the PAUSE button, the PIP images will shift upwards one by one. The top image will disappear and a frozen image appear when you press PAUSE.

❻ To cancel the PIP image, press the PIP button.

<if PIP is off>

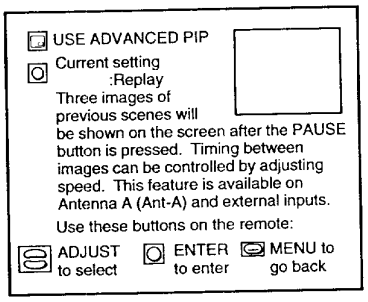


<if PIP is on>



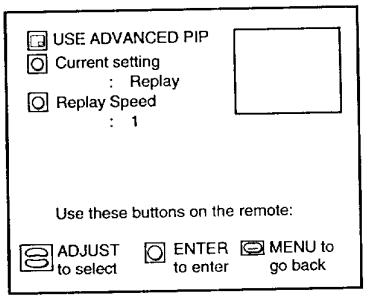
*A, B, C, D : the moving image
*a, b, c, d : the frozen image at the instant you press the PAUSE button.

Using the Replay feature


USE ADVANCED PIP
Current setting
:Replay
Three images of previous scenes will be shown on the screen after the PAUSE button is pressed. Timing between images can be controlled by adjusting speed. This feature is available on Antenna A (Ant-A) and external inputs.
Use these buttons on the remote:
ADJUST to select
ENTER to enter
MENU to go back

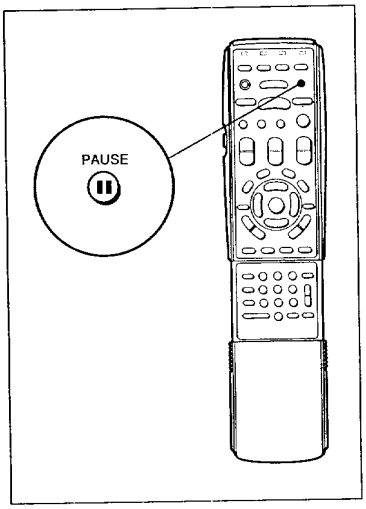
❶ Select "Use Advanced PIP" in "Customize Display" menu; then set the current setting to "Replay."

❷ Set the replay speed between 1 (short interval) and 9 (long interval).



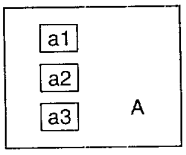
❸ Use the MENU button to return to the normal picture.

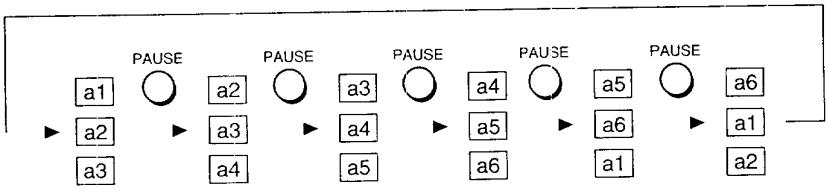
❹ Press the pause button (PAUSE). The main image will be frozen and replayed in sequence for a "strobe" animation effect. These images will appear in sets of three (from a total of seven stored images) at the speed you select.



❺ Each time you press PAUSE, the PIP images will shift upwards one by one.

❻ To cancel the PIP image, press the PIP button.





◆ Using the Active A/V Network Feature

This A/V Network is a special feature that makes it easier to use your television and other components in a home theater system.

When you connect the A/V Network, you can point the remote control at the television, and it will "pass" the remote control command to the other components.

The Active A/V Network allows you to perform many of the commonly used features of your system at the press of just one button.

▷**Important:** When you subscribe to StarSight, the Active A/V Network features will be replaced by a new set of user convenience features. Therefore, you will not be able to use the Active A/V Network features called One Key Play and Quick Program.

before you begin

✓ You must have connected an A/V Network cable from the Active A/V Network terminal of your TV to the A/V Network IN terminal of your VCR. See **Booklet #1 "Mitsubishi Installation and Setup Guide."**

✓ You must have connected your VCR to External 1 (EXT-1) of your TV.

✓ You must have set your TV's "A/V Network" setting to "Active" or "Basic." See "Setting the A/V Network," page 30.

✓ Your VCR's remote control switch (if any) should be set to "VCR-A."

✓ Your VCR's video mute setting should be turned ON.

▷**Important:** **For StarSight subscribers:** You will not be able to use the Quick Program (QP) feature when you subscribe to StarSight. The StarSight system for programming your VCR is all that you will need.

what the Active A/V Network does

The Active A/V Network makes it easier and faster to use the VCR's Program and Play commands and the TV's PIP commands.

When using the Active A/V Network, you should always point your remote control at your television.

using the quick program button (QUICK PROGRAM)

When you press QUICK PROGRAM to begin programming your VCR:

✓ Active A/V Network will turn on your VCR and bring it to the "Program to Record" screen. (If the VCR's clock has not been set, you will see the "Set the clock" screen. See your VCR's Owner's Guide for information about setting the VCR clock.)

✓ Active A/V Network will turn on your TV (if it is off), and switch the TV to EXT-1.

You can program your VCR by pointing your remote control at the

TV.

When you press QUICK PROGRAM to end programming your VCR:

✓ Active A/V Network will turn off your VCR (unless a tape is currently playing or recording), in Active mode only.

✓ Active A/V Network will return your TV to the channel it was on before, or turn it off (if it was off originally).

▷**Important:** **For StarSight subscribers:** You will not be able to use the Auto Play feature when you subscribe to StarSight.

using the PLAY button (AUTO PLAY)

When you press PLAY on the remote:

✓ Active A/V Network will turn your VCR on and begin playing the tape (if any).

✓ Active A/V Network will turn your TV on and switch it to EXT-1.

When you turn your TV off:

✓ Your VCR will turn off (unless it is playing or recording), in Active mode only.

▷**Important:** If you turn off the TV while it is set to EXT-1: it will return to the last channel you viewed on Antenna-A or Antenna-B when you turn the TV back on.

▷**Important:** If you leave the TV turned on, set to EXT-1, but the TV is not receiving a signal on EXT-1, it will automatically turn off after five minutes. (If you use a TV menu during this time, the TV will turn off five minutes after you stop using the menus.)

▷**Important:** You should not press the PIP button while you are watching a channel that is not receiving any broadcasts. You will not be able to see the small PIP image, and you will not be able to change channels on the main image. You may need to turn off the TV and turn it back on, change to a channel that is receiving a broadcast, and begin again.

CHAPTER 4

Troubleshooting

Even though you're now familiar with the basic and advanced operations of the TV, you may run into trouble from time to time as you become accustomed to the TV. This chapter offers solutions to some of the common problems you may encounter. We suggest that you consult this chart before contacting a Mitsubishi service representative.

Troubleshooting (cont.)

Problems	Possible Solutions	For More Information
○ The remote control doesn't work.	○ Check that the batteries are installed correctly.	○ See "Getting ready to use the remote control" in Chapter 1 for an explanation of how to install batteries in the remote control.
	○ Check the SELECT button is set to TV.	○ See "Remote control buttons and functions" in Chapter 1, which explains where the SELECT buttons are located.
• You have problems with PIP "exchange."	• You should not exchange PIP images when the main image is Antenna B and the PIP image is Antenna A. If you do, you must press the INPUT button to return to viewing Antenna B.	
• Antenna B does not appear as a PIP source.	• Antenna B is not available as a PIP source when you watch TV on Antenna A.	
○ You cannot see a picture when you play a tape in your VCR.	○ If you connected your VCR using a video cable, use the INPUT button to select the input (Ext. 1, 2, 3) that the VCR is connected to.	○ See "Selecting the Input Source" in Chapter 2, for an explanation about changing the TV's input for viewing.
	○ If you are using a cable box, make sure that the output channel of your VCR and cable box are both set to the same channel.	
• It takes several seconds for the cable box to change channels.	• This is normal. It takes several seconds for the IR Emitter to pass the remote control codes to the box.	

Problems	Possible Solutions	For More Information
• On-screen displays appear each time you adjust a function.	• This is part of the normal operation of the TV.	• See "Understanding the On-Screen Displays" in Chapter 3 for a full explanation of the on-screen displays.
• There's no sound even when the volume is turned up.	• Check that the MUTE button isn't on.	• See "Remote control buttons and functions" in Chapter 1.
	• Check the setting of the "Speaker: Internal/Internal Center Channel/External" function.	• See "Adjusting the sound" in Chapter 2, which explains how to switch the speakers setting.
• You forget the code you used to set the parental lock.	• Use the alternate procedure that doesn't require the use of the code.	• See the Appendix "Automatic Procedure for the Parental Lock."
• The sound doesn't match the image on screen.	• The TV's reception mode may be set to "separate audio program (SAP)."	• See "Adjusting the sound" in Chapter 2, which explains how to select the appropriate reception mode.
• The TV picture shows a slight color impurity.	• The TV picture may be affected by the magnetic force of the earth. Press the DEGAUSS button.	• See "Adjusting the Color Purity" in Chapter 2 which explains how to adjust color performance.
• You cannot see a picture when you try to play back a tape.	• If you connected your VCR using a video cable, use the INPUT button to select the input (Ext-1, 2, 3) that the VCR is connected to.	
• You cannot see a picture when you try to play back a tape using channel 3 or 4 on your TV.	• If you are using a cable box, make sure the output channel of your VCR and cable box are both set to the same channel, or use the INPUT button to select the input (Ext-1, 2, 3) that the VCR is connected to.	

Caution and Care

▶Warning:

Don't leave stationary images, such as those generated from stock market reports or video games, on-screen for more than 10 minutes. Still patterns can scar the TV causing permanent damage to the picture tube.

▷Important: If you plan to place speakers next to the TV, make sure they are magnetically shielded. Ordinary speakers will cause distortion in the picture due to their strong magnets. This distortion, however, will not harm the picture tube.

For maximum enjoyment and safe operation of your Mitsubishi Color TV, please read the "IMPORTANT SAFEGUARDS" carefully and apply them properly. (Please see **Booklet #1, "Mitsubishi Installation and Setup Guide**.")

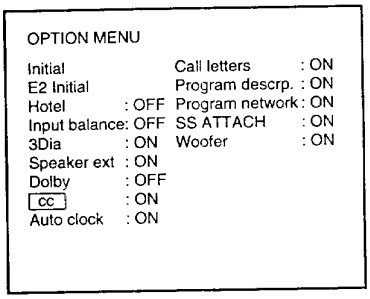
Calling for service

If you are unable to correct the problem, consult your Mitsubishi dealer or Mitsubishi Authorized Warranty Service Center.

Do not adjust any controls not described in this owner's guide.

Do not remove the protective back cover of this unit.

If you see the following display on your screen, you should not change any settings. This is a special display used by the factory.



If this display appears, make sure that all of the on/off settings are the same as the illustration above and then turn the TV off. If any of the settings are different than the illustration above, turn the TV off and consult your Mitsubishi dealer or Mitsubishi Authorized Warranty Service Center.

For further assistance, please call Mitsubishi Consumer Relations: (800) 332-2119.

APPENDIX

Automatic Procedure for the Parental Lock

Cut along dotted line and file after reading

After you lock the TV, you will need the secret code in order to:

- view the locked TV, or
- cancel the lock.

If you forget the code, you can view the locked TV without entering the code. To do this, simply press the buttons labeled "QV" and "9" at the same time.

▷**Important:** This procedure will only unlock the TV temporarily. To cancel the lock completely, follow the procedure below:

1. Press the "QV" button and the "9" button on the remote control at the same time. This will allow you to turn on a locked TV.
2. Press the MENU button to view the main menu. Use the ADJUST button to select "Advanced Features." Press ENTER.
3. Use the ADJUST button to select "Lock the TV." Press ENTER.
4. Press the "QV" button and the "9" button on the remote control at the same time. This will turn off the lock.

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MITSUBISHI COLOR TELEVISION OR COLOR MONITOR
LIMITED WARRANTY

MITSUBISHI ELECTRONICS AMERICA, INC. ("MELA") warrants to the original purchaser of this television that if purchased from an authorized MITSUBISHI Audio/Video Dealer, should it prove defective by reason of improper workmanship and/or material:

a. **Picture Tube.** For two years from the date of original purchase at retail, we will repair or replace at our option, any defective picture tube without charge for the tube.

b. **Other Parts.** For one year from the date of original purchase at retail, we will repair or replace, at our option, any other defective part without charge for the part.

c. All parts used for replacement are warranted for the remainder of the original warranty period.

d. **Labor.** For one year from the original purchase at retail, we will provide the labor for a warranty repair by an authorized MITSUBISHI service center without charge.

e. **Notice.** To obtain warranty service, you must notify an authorized MITSUBISHI service center of any defect within the applicable warranty time period.

1. TO OBTAIN WARRANTY SERVICE DURING THE FIRST YEAR:

a. Contact your nearest authorized MITSUBISHI service center whose name and address can be obtained from your MITSUBISHI dealer or by writing or calling MELA at the address and telephone number provided below.

b. Warranty service will be provided in your home or, if required, at an authorized service shop, provided that your television is located within the geographic territory customarily covered by an authorized MITSUBISHI service center. If not, you must either deliver your television to an authorized service location at your own expense, or pay for any travel and/or transportation costs the service center may charge to and from your home. Actual service labor will be provided without charge.

c. Proof of purchase date from an authorized Mitsubishi dealer is required when requesting warranty service. Present your sales receipt or other document which establishes proof and date of purchase. THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION OF WARRANTY COVERAGE. However, please detach and return the Owner Registration Card so that we can contact you should a question of safety arise which could affect you.

2. AFTER THE FIRST YEAR, to obtain warranty service for a defective picture tube, you are responsible for delivering the television or monitor to an authorized MITSUBISHI service center at your own expense.

3. THIS WARRANTY DOES NOT COVER damage caused by: modification, alteration, repair or service of the product by anyone other than an authorized MITSUBISHI service center; physical abuse to, or misuse of, the product; operation in a manner contrary to the instructions which accompany the product; freight damage; or any damage caused by acts of God such as lightning or fluctuation in electrical power. This warranty also excludes all costs arising from installation, adjustment of user controls, external antenna systems, service of products purchased or serviced outside the U.S.A., initial technical adjustments (set-up) and user-required maintenance. Consult the operating instructions furnished with the product for information regarding user controls.

4. ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY WHICH, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO A TERM OF ONE YEAR.

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